

**WORK INSTRUCTION**

- 1.0 ASSIGNMENT NO.: 01**
- 2.0 ASSIGNMENT NAME:**Introduction to DOS.
- 3.0 OBJECTIVE:** Practice various DOS commands.
- 4.0 COMMANDS :** Internal Commands: MD,CD,EDIT,COPY CON, COPY, TYPE,CLS, DIR, DEL, RD, VER, DATE, TIME etc.  
External Commands: FORMAT, TREE, DELTREE, DISKCOPY, DISKCOMP, FIND etc.
- 5.0 FACILITIES REQUIRED:**
- 5.1 Computer-Hardware  
5.2 MS – DOS Operating System.
- 6.0 PROCEDURE:**
- 6.1 Switch on the UPS and **monitor**.  
6.2 Then switch on the CPU.  
6.3 After OS is loaded, go to **start** menu and click.  
6.4 Go to MS-DOS prompt and click. You will see : C:\WINDOWS>  
6.5 Type **cd\** and then press Enter key. You will see: C : \type your command and see \the result
- 7.1 Properly shutdown the machine follows by those steps.  
7.1.1 Go to **start** menu and click.  
7.1.2 Click **shut down** option.  
7.1.3 Show a **shut down** window.  
7.1.4 Click the **radio** button corresponding to **shut down** option.  
7.1.5 Click **OK** button.
- 7.2 Floppy/CD is not to be used.
- 7.0 DISPOSAL:**
- Not applicable.
- 8.0 REPORT WRITING:**
- 8.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.  
8.2 Write your program with output.

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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 02**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to convert a temperature given in Degree Centigrade to Degree Fahrenheit & vice versa.

**3.0 OBJECTIVE:** 'C' program to convert a temperature from Degree Centigrade to Degree Fahrenheit & vice versa.

**4.0 ALGORITHM :** main()  
    { float c1, c2, f1, f2;  
      printf ("Enter temperature in Degree Centigrade :");  
      scanf ("%f", &c1);  
      f1= (9\*c1+160)/5;  
      printf ("Result in Fahrenheit is = %f",f1);  
      printf ("Enter temperature in Fahrenheit :");  
      scanf ("%f", &f2);  
      c2= 5\*(f2-32)/9;  
      printf ("Result in Centigrade is = %f",c2);  
    }

**5.0 FACILITIES REQUIRED:**

- 5.1 Computer-Hardware
- 5.2 Turbo C-Software

**6.0 PROCEDURE:**

- 6.1 Switch on the UPS and monitor.
- 6.2 Then switch on the CPU.
- 6.3 After OS is loaded, go to start menu and click.
- 6.4 Go to MS-DOS prompt and click. You will see : C:\WINDOWS>
- 6.5 Type cd\ and then press Enter key. You will see: C :\>
- 6.6 Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>
- 6.7 Type tc and then press Enter key. Open tc editor window.
- 6.8 Type your programs and after typing, go to file menu and click. Then go to save as menu and click. After clicking, you will enter your programs name and click Ok button.
- 6.9 Go to compile menu and click compile option. After successfully compilation, you will go to run menu and click run option.
- 6.10 Your output result will display.

**7.0 SAFETY:**

- 7.1 Properly shutdown the machine follows by those steps.
  - 7.1.1 Go to start menu and click.
  - 7.1.2 Click shut down option.
  - 7.1.3 Show a shut down window.
  - 7.1.4 Click the radio button corresponding to shut down option.
  - 7.1.5 Click OK button.
- 7.2 Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.

9.2 Write your program with output.

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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 03**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to calculate simple & compound interest.

**3.0 OBJECTIVE:** 'C' program to convert simple & compound interest.

**4.0 ALGORITHM :** `main()  
{ float si, ci,p,n,r,a;  
printf("\nEnter principle amount,no. of years & rate of interest:");  
scanf("%f %f %f",&p,&n,&r);  
si=p*n*r/100;  
a=p*pow((1+r/100),n);  
ci=a-p;  
printf("\nSimple Interest is = %f",si);  
printf("\nCompound Interest is =%f",ci);  
}`

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

**6.8** Type your programs and after typing, go to file menu and click. Then go to save as menu and click. After clicking, you will enter your programs name and click Ok button.

**6.9** Go to compile menu and click compile option. After successfully compilation, you will go to run menu and click run option.

**6.10** Your output result will display.

**7.0 SAFETY:**

**7.1** Properly shutdown the machine follows by those steps.

**7.1.1** Go to start menu and click.

**7.1.2** Click shut down option.

**7.1.3** Show a shut down window.

**7.1.4** Click the radio button corresponding to shut down option.

**7.1.5** Click OK button.

**7.2** Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

**9.1** The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.

**9.2** Write your program with output.



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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 04**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to find the roots of a quadratic equation.

**3.0 OBJECTIVE:** 'C' program to find the roots of a quadratic equation.

**4.0 ALGORITHM :** main()

```
{ float a,b,c,d,r1,r2;
  printf("\nEnter co-efficients:");
  scanf("%f %f %f",&a,&b,&c);
  d=b*b-4*a*c;
  if(d>=0)
  {
    r1=(-b+sqrt(d))/2*a;
    r2=(-b-sqrt(d))/2*a;
    printf("\nThe real roots are %f and %f",r1,r2);
  }
  else
    printf("\nThe roots are imaginary");
}
```

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to **start** menu and click.

**6.4** Go to **MS-DOS** prompt and click. You will see : C:\WINDOWS>

**6.5** Type **cd\** and then press Enter key. You will see: C :\>

**6.6** Type **cd\tc\bin** and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type **tc** and then press Enter key. Open tc editor window.

**6.8** Type your programs and after typing, go to **file** menu and click. Then go to **save as** menu and click. After clicking, you will enter your programs name and click **Ok** button.

**6.9** Go to **compile** menu and click **compile option**. After successfully compilation, you will go to **run** menu and click **run option**.

**6.10** Your output result will display.

**7.0 SAFETY:**

**7.1** Properly shutdown the machine follows by those steps.

**7.1.1** Go to **start** menu and click.

**7.1.2** Click **shut down** option.

**7.1.3** Show a **shut down** window.

**7.1.4** Click the **radio** button corresponding to **shut down** option.

**7.1.5** Click **OK** button.

**7.2** Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

**9.1** The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.

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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 05**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to determine largest among 3 numbers.

**3.0 OBJECTIVE:** 'C' program to determine largest among 3 numbers.

**4.0 ALGORITHM :**main()

```
{ int a,b,c;
printf("\nEnter three nos.:");
scanf("%d %d %d",&a,&b,&c);
if(a>b)
{ if(a>c)
printf("\n%d is largest", a);
else
printf("\n%d is largest",c);
}
else
{ if(b>c)
printf("\n%d is largest",c);
else
printf("\n%d is largest",c);
}
}
```

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

**6.8** Type your programs and after typing, go to file menu and click. Then go to save as menu and click. After clicking, you will enter your programs name and click Ok button.

**6.9** Go to compile menu and click compile option. After successfully compilation, you will go to run menu and click run option.

**6.10** Your output result will display.

**7.0 SAFETY:**

**7.1** Properly shutdown the machine follows by those steps.

**7.1.1** Go to start menu and click.

**7.1.2** Click shut down option.

**7.1.3** Show a shut down window.

**7.1.4** Click the radio button corresponding to shut down option.

**7.1.5** Click OK button.

7.2 Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.

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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 06**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to determine whether an year is Leap Year or not.

**3.0 OBJECTIVE:** 'C' program to determine whether an year is Leap Year or not.

**4.0 ALGORITHM :**main()

```
{ int year;
printf("\nEnter any year:");
scanf("%d",&year);
if(year%4==0 && year%100!=0 || year%400==0)
    printf("\n%d is Leap Year");
else
    printf("\n%d is not Leap Year");
}
```

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

**6.8** Type your programs and after typing, go to file menu and click. Then go to save as menu and click. After clicking, you will enter your programs name and click Ok button.

**6.9** Go to compile menu and click compile option. After successfully compilation, you will go to run menu and click run option.

**6.10** Your output result will display.

**7.0 SAFETY:**

**7.1** Properly shutdown the machine follows by those steps.

**7.1.1** Go to start menu and click.

**7.1.2** Click shut down option.

**7.1.3** Show a shut down window.

**7.1.4** Click the radio button corresponding to shut down option.

**7.1.5** Click OK button.

**7.2** Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.



**9.0 REPORT WRITING:**

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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 07**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to determine whether a number is prime or not.

**3.0 OBJECTIVE:** 'C' program to determine whether a number is prime or not.

**4.0 ALGORITHM :** `main()  
{ int num,i;  
  printf("\nEnter any number:");  
  scanf("%d",&num);  
  i=2;  
  while(i<=num-1)  
  { if(num%i==0)  
    { printf("%d is not prime no.",num); break;  
    }  
    i++;  
  }  
  if(i==num)  
    printf("%d is prime no.",num);  
}`

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to **start** menu and click.

**6.4** Go to **MS-DOS** prompt and click. You will see : **C:\WINDOWS>**

**6.5** Type **cd\** and then press Enter key. You will see: **C :\>**

**6.6** Type **cd\tc\bin** and then press Enter key. You will see : **C:\TC\BIN>**

**6.7** Type **tc** and then press Enter key. Open tc editor window.

**6.8** Type your programs and after typing, go to **file** menu and click. Then go to **save as** menu and click. After clicking, you will enter your programs name and click **Ok** button.

**6.9** Go to **compile** menu and click **compile option**. After successfully compilation, you will go to **run** menu and click **run option**.

**6.10** Your output result will display.

**7.0 SAFETY:**

**7.1** Properly shutdown the machine follows by those steps.

**7.1.1** Go to **start** menu and click.

**7.1.2** Click **shut down** option.

**7.1.3** Show a **shut down** window.

**7.1.4** Click the **radio** button corresponding to **shut down** option.

**7.1.5** Click **OK** button.

**7.2** Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

**9.1** The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.

**9.2** Write your program with output.

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## WORK INSTRUCTION

### 1.0 ASSIGNMENT NO.: 08

2.0 ASSIGNMENT NAME: Write a 'C' program to determine factorial of a given number.

3.0 OBJECTIVE: 'C' program to determine factorial of a given number.

4.0 ALGORITHM :main()  
    { int i, fact=1,n;  
      printf("\nEnter any no.:");  
      scanf("%d",&n);  
      for(i=1;i<=n;i++)  
        fact=fact\*i;  
      printf("\nFactorial of given no. %d is: %d",n,fact);  
    }

### 5.0 FACILITIES REQUIRED:

- 5.1 Computer-Hardware
- 5.2 Turbo C-Software

### 6.0 PROCEDURE:

- 6.1 Switch on the UPS and monitor.
- 6.2 Then switch on the CPU.
- 6.3 After OS is loaded, go to **start** menu and click.
- 6.4 Go to MS-DOS prompt and click. You will see : C:\WINDOWS>
- 6.5 Type cd\ and then press Enter key. You will see: C :\>
- 6.6 Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>
- 6.7 Type tc and then press Enter key. Open tc editor window.
- 6.8 Type your programs and after typing, go to **file** menu and click. Then go to **save as** menu and click. After clicking, you will enter your programs name and click **Ok** button.
- 6.9 Go to **compile** menu and click **compile option**. After successfully compilation, you will go to **run** menu and click **run option**.
- 6.10 Your output result will display.

### 7.0 SAFETY:

- 7.1 Properly shutdown the machine follows by those steps.
  - 7.1.1 Go to **start** menu and click.
  - 7.1.2 Click **shut down** option.
  - 7.1.3 Show a **shut down** window.
  - 7.1.4 Click the **radio** button corresponding to **shut down** option.
  - 7.1.5 Click **OK** button.
- 7.2 Floppy/CD is not to be used.

### 8.0 DISPOSAL:

Not applicable.

### 9.0 REPORT WRITING:

- 9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.
- 9.2 Write your program with output.



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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 09**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to determine Fibonacci series of n numbers

**3.0 OBJECTIVE:** 'C' program to determine Fibonacci series of n numbers.

**4.0 ALGORITHM :** main()

```
{
    int f0=0,f1=1,f2,num,count=0;
    printf("\nEnter the limit:");
    scanf("%d",&num);
    printf("\nThe Fibonacci Series is : \n");
    if(num<=0)
        printf("\nWrong Input....!!!");
    else if(num==1)
        printf("%d",f0);
    else if(num==2)
        printf("%d %d",f0,f1);
    else
    {
        count=3;
        f2=f0+f1;
        printf("%d %d %d",f0,f1,f2);
        while(count<num)
        {
            f0=f1;
            f1=f2;
            f2=f0+f1;
            printf("%d",f2);
        }
    }
}
```

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :\>.

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

**6.8** Type your programs and after typing, go to file menu and click. Then go to save as menu and click. After clicking, you will enter your programs name and click Ok button.

**6.9** Go to compile menu and click compile option. After successfully compilation, you will go to run menu and click run option.

**6.10** Your output result will display.

**7.0 SAFETY:**

**7.1** Properly shutdown the machine follows by those steps.

**7.1.1** Go to **start** menu and click.

**7.1.2** Click **shut down** option.

**7.1.3** Show a **shut down** window.

**7.1.4** Click the **radio** button corresponding to **shut down** option.

**7.1.5** Click **OK** button.

**7.2** Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

**9.1** The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.

**9.2** Write your program with output.

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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 10**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to convert Decimal number to Binary and vice-versa.

**3.0 OBJECTIVE:** 'C' program to convert Decimal number to Binary/ Octal/Hexadecimal numbers

**4.0 ALGORITHM :** main()

```
{
    int i,dnum,bnum,rem;
    printf("\nEnter any decimal number:");
    scanf("%d",&dnum);
    i=0;
    bnum=0;
    while(dnum>0)
    {
        rem=dnum%2;
        bnum=bnum*pow(10,i)*rem;
        num/=2;
        i++;
    }
    printf("\nThe equivalent binary number is = %d",bnum);
    printf("\nEnter any binary number:");
    scanf("%d",&bnum);
    i=0;
    dnum=0;
    while(bnum>0)
    {
        rem=bnum%10;
        dnum=dnum*pow(2,i)*rem;
        num/=10;
        i++;
    }
    printf("\nThe equivalent binary number is = %d",dnum);
}
```

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :\>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

- 6.8 Type your programs and after typing, go to **file** menu and click. Then go to **save as** menu and click. After clicking, you will enter your programs name and click **Ok** button.
- 6.9 Go to **compile** menu and click **compile option**. After successfully compilation, you will go to **run** menu and click **run** option.
- 6.10 Your output result will display.

**7.0 SAFETY:**

- 7.1 Properly shutdown the machine follows by those steps.
  - 7.1.1 Go to **start** menu and click.
  - 7.1.2 Click **shut down** option.
  - 7.1.3 Show a **shut down** window.
  - 7.1.4 Click the **radio** button corresponding to **shut down** option.
  - 7.1.5 Click **OK** button.
- 7.2 Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

- 9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.
- 9.2 Write your program with output.

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ANNEXURE-1

NAME: \_\_\_\_\_

ROLL NO.: \_\_\_\_\_ DEPARTMENT: \_\_\_\_\_

DATE OF ASSIGNMENT: \_\_\_\_\_

DATE OF SUBMISSION: \_\_\_\_\_

TITLE: \_\_\_\_\_

OBJECTIVE: \_\_\_\_\_

Marks Obtained

Signature of the Sessional in -  
Charge



**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 11**

**2.0 ASSIGNMENT NAME:** Write a 'C' compute following series:

$$s = 1 + x/1! + x^2/2! + x^3/3! + \dots$$

**3.0 OBJECTIVE:** 'C' program to compute the series upto 'n' numbers.

**4.0 ALGORITHM :** main()

```
{ int i,n,f=1;
  float x,sum=1;
  printf("\nEnter how many:");
  scanf("%d",&n);
  printf("\nEnter value of x:");
  scanf("%f",&x);
  for(i=1;i<=n;i++)
  {   f=f*i;
      sum+= pow(x,i)/f;
  }
  printf("\nThe summation of the series is : %f",sum);
}
```

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware.

**5.2** Turbo C-Software.

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :\>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

**6.8** Type your programs and after typing, go to file menu and click. Then go to save as menu and click. After clicking, you will enter your programs name and click Ok button.

**6.9** Go to compile menu and click compile option. After successfully compilation, you will go to run menu and click run option.

**6.10** Your output result will display.

**7.0 SAFETY:**

**7.1** Properly shutdown the machine follows by those steps.

**7.1.1** Go to start menu and click.

**7.1.2** Click shut down option.

**7.1.3** Show a shut down window.

**7.1.4** Click the radio button corresponding to shut down option.

**7.1.5** Click OK button.

**7.2** Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

**9.1** The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.

**9.2** Write your program with output.

THE NEOTIA UNIVERSITY

ANNEXURE-1

NAME: \_\_\_\_\_

ROLL NO.: \_\_\_\_\_ DEPARTMENT: \_\_\_\_\_

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OBJECTIVE: \_\_\_\_\_

Marks Obtained

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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 12**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to generate the following triangle:

```
1
0 1
1 0 1
0 1 0 1
```

**3.0 OBJECTIVE:** 'C' program to generate the triangles upto 'h' heights.

**4.0 ALGORITHM :** main()  
    { int i, j, h,c;  
      printf("\nEnter height:");  
      scanf("%d",&h);  
      for(i=1;i<=h;i++)  
      { for(j=1;j<=i;j++)  
        { c=(i+j-1)%2; printf(" %d",c);  
        }  
      printf("\n");  
    }

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware.

**5.2** Turbo C-Software.

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to **start** menu and click.

**6.4** Go to **MS-DOS** prompt and click. You will see : C:\WINDOWS>

**6.5** Type **cd\** and then press Enter key. You will see: C :\>

**6.6** Type **cd\tc\bin** and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type **tc** and then press Enter key. Open tc editor window.

**6.8** Type your programs and after typing, go to **file** menu and click. Then go to **save as** menu and click. After clicking, you will enter your programs name and click **Ok** button.

**6.9** Go to **compile** menu and click **compile option**. After successfully compilation, you will go to **run** menu and click **run option**.

**6.10** Your output result will display.

**7.0 SAFETY:**

**7.1** Properly shutdown the machine follows by those steps.

**7.1.1** Go to **start** menu and click.

**7.1.2** Click **shut down** option.

**7.1.3** Show a **shut down** window.

**7.1.4** Click the **radio** button corresponding to **shut down** option.

**7.1.5** Click **OK** button.

**7.2** Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

**9.1** The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.

**9.2** Write your program with output.

THE NEOTIA UNIVERSITY

ANNEXURE-1

NAME: \_\_\_\_\_

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TITLE: \_\_\_\_\_

OBJECTIVE: \_\_\_\_\_

Marks Obtained

Signature of the Sessional in -  
Charge

**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 13**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to compute GCD & LCM of given two numbers.

**3.0 OBJECTIVE:** 'C' program to compute GCD & LCM of given two numbers.

**4.0 ALGORITHM :** main()

```
{ int a,b,x,rem,l;
printf("\nEnter two positive integers :");
scanf("%d%d",&a,&b);
x=a*b;
if(a>b)
{ rem=a%b;
while(rem!=0)
{ a=b;
b=rem;
rem=a%b;
}
printf("\nGCD=%d",b);
l=x/b;
printf("\nLCM=%d",l);
}
else
{ rem=b%a;
while(rem!=0)
{ b=a;
a=rem;
rem=b%a;
}
printf("\nGCD=%d",a);
l=x/a;
printf("\nLCM=%d",l);
}
}
```

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :\>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.



- 6.8 Type your programs and after typing, go to **file** menu and click. Then go to **save as** menu and click. After clicking, you will enter your programs name and click **Ok** button.
- 6.9 Go to **compile** menu and click **compile option**. After successfully compilation, you will go to **run** menu and click **run** option.
- 6.10 Your output result will display.

**7.0 SAFETY:**

- 7.1 Properly shutdown the machine follows by those steps.
  - 7.1.1 Go to **start** menu and click.
  - 7.1.2 Click **shut down** option.
  - 7.1.3 Show a **shut down** window.
  - 7.1.4 Click the **radio** button corresponding to **shut down** option.
  - 7.1.5 Click **OK** button.
- 7.2 Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

- 9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.
- 9.2 Write your program with output.

THE NEOTIA UNIVERSITY

ANNEXURE-1

NAME: \_\_\_\_\_

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OBJECTIVE: \_\_\_\_\_

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Charge

**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 14**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to compute Bubble sort.

**3.0 OBJECTIVE:** 'C' program to compute Bubble sort.

**4.0 ALGORITHM :** main()

```
{ int arr[max],n,i,j,temp;
  printf("\n\t\t\tBUBBLE SORT");
  printf("\n\t\t\t-----");
  printf("\nEnter no. of elements to sort:");
  scanf("%d",&n);
  for(i=0;i<n;i++)
  {
    printf("\nEnter value in arr[%d]:",i+1);
    scanf("%d",&arr[i]);
  }
  for(i=0;i<n-1;i++)
    for(j=0;j<n-1-i;j++)
      if(arr[j]>arr[j+1])
      {
        temp=arr[j+1];
        arr[j+1]=arr[j];
        arr[j]=temp;
      }
  printf("\nThe sorted list is:\n");
  for(i=0;i<n;i++)
    printf("%d\t",arr[i]);
  getch();
}
```

**5.0 FACILITIES REQUIRED:**

- 5.1 Computer-Hardware
- 5.2 Turbo C-Software

**6.0 PROCEDURE:**

- 6.1 Switch on the UPS and monitor.
- 6.2 Then switch on the CPU.
- 6.3 After OS is loaded, go to start menu and click.
- 6.4 Go to MS-DOS prompt and click. You will see : C:\WINDOWS>
- 6.5 Type cd\ and then press Enter key. You will see: C :>
- 6.6 Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>
- 6.7 Type tc and then press Enter key. Open tc editor window.
- 6.8 Type your programs and after typing, go to file menu and click. Then go to save as menu and click. After clicking, you will enter your programs name and click Ok button.
- 6.9 Go to compile menu and click compile option. After successfully compilation, you will go to run menu and click run option.
- 6.10 Your output result will display.

**7.0 SAFETY:**

- 7.1 Properly shutdown the machine follows by those steps.
  - 7.1.1 Go to **start** menu and click.
  - 7.1.2 Click **shut down** option.
  - 7.1.3 Show a **shut down** window.
  - 7.1.4 Click the **radio** button corresponding to **shut down** option.
  - 7.1.5 Click **OK** button.
- 7.2 Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

- 9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.
- 9.2 Write your program with output.

THE NEOTIA UNIVERSITY

ANNEXURE-1

NAME: \_\_\_\_\_

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TITLE: \_\_\_\_\_

OBJECTIVE: \_\_\_\_\_

Marks Obtained

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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 15**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to compute Linear & Binary search.

**3.0 OBJECTIVE:** 'C' program to compute Linear & Binary search.

**4.0 ALGORITHM : Linear Search:**

**main()**

```
{ int arr[max], num, i;
  printf("\n\tInput values in the array.");
  for(i=0; i<max; i++)
  { printf("\n\tEnter element in arr[%d]:", i);
    scanf("%d", &arr[i]);
  }
  printf("\n\tThe elements are:\n");
  for(i=0; i<max; i++)
    printf("\t%d", arr[i]);
  printf("\n\tEnter element to search:");
  scanf("%d", &num);
  for(i=0; i<max; i++)
  { if(arr[i]==num)
    { printf("\n\t%d found in %dth position.", num, i);
      getch();
      exit(0);
    }
  }
  printf("\n\t%d not found.", num);
}
```

**Binary Search:**

**main()**

```
{ int arr[max], num, i, j, ch, lb, ub, mid, f, temp;
  printf("\n\tInput values in the array.");
  for(i=0; i<max; i++)
  { printf("\n\tEnter element in arr[%d]:", i);
    scanf("%d", &arr[i]);
  }
  for(i=0; i<max; i++)
  { for(j=0; j<max-i-1; j++)
    {
      { if(arr[j]>arr[j+1])
        { temp=arr[j];
          arr[j]=arr[j+1];
          arr[j+1]=temp;
        }
      }
    }
  }
  printf("\n\tThe elements are:\n");
  for(i=0; i<max; i++)
    printf("\t%d", arr[i]);
}
```



```
printf("\n\tEnter element to search:");
scanf("%d", &num);
lb=0;ub=max-1;mid=0,f=-1;
while(lb<=ub)
{ mid=(lb+ub)/2;
  if(arr[mid]<num)
    lb=mid+1;
  else
    if(arr[mid]>num)
      ub=mid-1;
    else
      {printf("\n\t%d is found in %dth position.",
        num,mid);
        getch();
        exit(0);
      }
}
printf("\n\t%d is not found.",num);
}
```

## 5.0 FACILITIES REQUIRED:

- 5.1 Computer-Hardware
- 5.2 Turbo C-Software

## 6.0 PROCEDURE:

- 6.1 Switch on the UPS and monitor.
- 6.2 Then switch on the CPU.
- 6.3 After OS is loaded, go to start menu and click.
- 6.4 Go to MS-DOS prompt and click. You will see : C:\WINDOWS>
- 6.5 Type cd\ and then press Enter key. You will see: C :>
- 6.6 Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>
- 6.7 Type tc and then press Enter key. Open tc editor window.
- 6.8 Type your programs and after typing, go to file menu and click. Then go to save as menu and click. After clicking, you will enter your programs name and click Ok button.
- 6.9 Go to compile menu and click compile option. After successfully compilation, you will go to run menu and click run option.
- 6.10 Your output result will display.

## 7.0 SAFETY:

- 7.1 Properly shutdown the machine follows by those steps.
  - 7.1.1 Go to start menu and click.
  - 7.1.2 Click shut down option.
  - 7.1.3 Show a shut down window.
  - 7.1.4 Click the radio button corresponding to shut down option.
  - 7.1.5 Click OK button.
- 7.2 Floppy/CD is not to be used.

## 8.0 DISPOSAL:

Not applicable.



**9.0 REPORT WRITING:**

- 9.1** The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.
- 9.2** Write your program with output.

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ANNEXURE-1

NAME: \_\_\_\_\_

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TITLE: \_\_\_\_\_

OBJECTIVE: \_\_\_\_\_

Marks Obtained

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Charge

**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 16**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to compute Matrix addition & multiplication.

**3.0 OBJECTIVE:** 'C' program to compute Matrix addition & multiplication.

**4.0 ALGORITHM : Matrix Addition:**

```
main()
{ int a[3][3],b[3][3],c[3][3], i, j;
  printf ("\nEnter elements in first matrix:\n");
  for(i=0;i<3;i++)
    for(j=0;j<3;j++)
      { printf ("\nEnter element in a[%d][%d]:",i,j);
        scanf ("%d",&a[i][j]);
      }
  printf ("\nEnter elements in second matrix:\n");
  for(i=0;i<3;i++)
    for(j=0;j<3;j++)
      { printf ("\nEnter element in b[%d][%d]:",i,j);
        scanf ("%d",&a[i][j]);
      }
  for(i=0;i<3;i++)
    for(j=0;j<3;j++)
      c[i][j]=a[i][j]+b[i][j];
  printf ("\nMatrix after addition :\n");
  for(i=0;i<3;i++)
    { for(j=0;j<3;j++)
      printf ("\t%d", c[i][j]);
      printf ("\n");
    }
}
```

**Matrix Multiplication:**

```
main()
{int a[3][3],b[3][3],c[3][3], i, j,k;
  printf ("\nEnter elements in first matrix:\n");
  for(i=0;i<3;i++)
    for(j=0;j<3;j++)
      { printf ("\nEnter element in a[%d][%d]:",i,j);
        scanf ("%d",&a[i][j]);
      }
  printf ("\nEnter elements in second matrix:\n");
  for(i=0;i<3;i++)
    for(j=0;j<3;j++)
      { printf ("\nEnter element in b[%d][%d]:",i,j);
        scanf ("%d",&a[i][j]);
      }
  for(i=1;i<=n;i++)
  { for(j=1;j<=n;j++)
    {c[i][j]=0;
```

```

        for(k=1;k<=n;k++)
            c[i][j]+=a[i][k]+b[k][j];
    }
}
for(i=1;i<=n;i++)
{for(j=1;j<=n;j++)
    printf("%d\t",c[i][j]);
    printf("\n");
}

```

## 5.0 FACILITIES REQUIRED:

5.1 Computer-Hardware

5.2 Turbo C-Software

## 6.0 PROCEDURE:

6.1 Switch on the UPS and monitor.

6.2 Then switch on the CPU.

6.3 After OS is loaded, go to start menu and click.

6.4 Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

6.5 Type cd\ and then press Enter key. You will see: C :\>

6.6 Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

6.7 Type tc and then press Enter key. Open tc editor window.

6.8 Type your programs and after typing, go to **file** menu and click. Then go to **save as** menu and click. After clicking, you will enter your programs name and click **Ok** button.

6.9 Go to **compile** menu and click **compile option**. After successfully compilation, you will go to **run** menu and click **run option**.

6.10 Your output result will display.

## 7.0 SAFETY:

7.1 Properly shutdown the machine follows by those steps.

7.1.1 Go to start menu and click.

7.1.2 Click **shut down** option.

7.1.3 Show a **shut down** window.

7.1.4 Click the **radio** button corresponding to **shut down** option.

7.1.5 Click **OK** button.

7.2 Floppy/CD is not to be used.

## 8.0 DISPOSAL:

Not applicable.

## 9.0 REPORT WRITING:

9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.

9.2 Write your program with output.

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ANNEXURE-1

NAME: \_\_\_\_\_

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OBJECTIVE: \_\_\_\_\_

Marks Obtained

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**WORK INSTRUCTION**

**1.0. ASSIGNMENT NO.:** 17

**2.0. ASSIGNMENT NAME:** Write a C program to compute Fibonacci series using user defined function.

**3.0. OBJECTIVE:** 'C' program to compute Fibonacci series using user defined function.

**4.0. ALGORITHM:**

```
int fibo(int n)
{
    if(n==0 || n==1)
        return n;
    else
        return(fibo(n-1)+fibo(n-2));
}
```

**5.0. FACILITIES REQUIRED:**

5.1. Computer-Hardware

5.2. Turbo C-Software

**6.0. PROCEDURE:**

- 6.1 Switch on the UPS and monitor.
- 6.2 Then switch on the CPU.
- 6.3 After OS is loaded, go to start menu and click.
- 6.4 Go to MS-DOS prompt and click. You will see : C:\WINDOWS>
- 6.5 Type cd\ and then press Enter key. You will see: C :\>
- 6.6 Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>
- 6.7 Type tc and then press Enter key. Open tc editor window.
- 6.8 Type your programs and after typing, go to file menu and click. Then go to save as menu and click. After clicking, you will enter your programs name and click Ok button.
- 6.9 Go to compile menu and click compile option. After successfully compilation, you will go to run menu and click run option.
- 6.10 Your output result will display.

**7.0. SAFETY:**

- 7.1 Properly shutdown the machine follows by those steps.
  - 7.1.1 Go to start menu and click.
  - 7.1.2 Click shut down option.
  - 7.1.3 Show a shut down window.
  - 7.1.4 Click the radio button corresponding to shut down option.
  - 7.1.5 Click OK button.
- 7.2 Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

- 9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.

9.2 Write your program with output.

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ANNEXURE-1

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OBJECTIVE: \_\_\_\_\_

Marks Obtained

Signature of the Sessional in -  
Charge

**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 18**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to compute Factorial of a given no. using recursion.

**3.0 OBJECTIVE:** 'C' program to compute Factorial of a given no. & Fibonacci series of a given no.

**4.0 ALGORITHM :**

```
int fact(int n)
{
    if(n==0)
        return 1;
    else
        return(n*fact(n-1));
}
```

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

**6.8** Type your programs and after typing, go to file menu and click. Then go to save as menu and click. After clicking, you will enter your programs name and click Ok button.

**6.9** Go to compile menu and click compile option. After successfully compilation, you will go to run menu and click run option.

**6.10** Your output result will display.

**7.0 SAFETY:**

**7.1** Properly shutdown the machine follows by those steps.

**7.1.1** Go to start menu and click.

**7.1.2** Click shut down option.

**7.1.3** Show a shut down window.

**7.1.4** Click the radio button corresponding to shut down option.

**7.1.5** Click OK button.

**7.2** Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

**9.1** The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.

**9.2** Write your program with output.

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ANNEXURE-1

NAME: \_\_\_\_\_

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OBJECTIVE: \_\_\_\_\_

Marks Obtained

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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 19**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to count no. of vowels, digits, consonants, spaces, words of a given string.

**3.0 OBJECTIVE:** 'C' program to count no. of vowels, digits, consonants, spaces, words of a given string.

**4.0 ALGORITHM :**

```
main()
{char str[100];
 int i,v=0,d=0,c=0,s=0,w=1;
 printf("\nEnter any string:");
 fflush(stdin); gets(str);
 for(i=0;str[i]!='\0';i++)
 {if(isalpha(str[i]))
  {switch(tolower(str[i]))
   { case 'a':
    case 'e':
    case 'i':
    case 'o':
    case 'u': v++;break;
    default : c++;
   }
  }
 if(str[i]==' ' || str[i]!='\0')
 { s++;w++; }
 if(isdigit(str[i]))
  d++;
 }
 printf("\nThe no. of vowels is = %d",v);
 printf("\nThe no. of consonents is = %d",c);
 printf("\nThe no. of digits is = %d",d);
 printf("\nThe no. of spaces is = %d",s);
 printf("\nThe no. of words is = %d",w);
 }
```

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :\>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

- 6.8 Type your programs and after typing, go to **file** menu and click. Then go to **save as** menu and click. After clicking, you will enter your programs name and click **Ok** button.
- 6.9 Go to **compile** menu and click **compile option**. After successfully compilation, you will go to **run** menu and click **run** option.
- 6.10 Your output result will display.

#### 4.0 SAFETY:

- 7.1 Properly shutdown the machine follows by those steps.
  - 7.1.1 Go to **start** menu and click.
  - 7.1.2 Click **shut down** option.
  - 7.1.3 Show a **shut down** window.
  - 7.1.4 Click the **radio** button corresponding to **shut down** option.
  - 7.1.5 Click **OK** button.
- 7.2 Floppy/CD is not to be used.

#### 5.0 DISPOSAL:

Not applicable.

#### 6.0 REPORT WRITING:

- 6.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.
- 6.2 Write your program with output.

THE NEOTIA UNIVERSITY

ANNEXURE-1

NAME: \_\_\_\_\_

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TITLE: \_\_\_\_\_

OBJECTIVE: \_\_\_\_\_

Marks Obtained

Signature of the Sessional in -  
Charge



**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 20**

**2.0 ASSIGNMENT NAME:** Write a 'C' program using the functions: strlen, strcpy, strcat & strcmp.

**3.0 OBJECTIVE:** 'C' program using the functions : strlen, strcpy, strcat & strcmp.

**4.0 ALGORITHM :**

```
main()
{char *s1,*s2,*s3,*s4,*s5;
 int l1,l2;
 printf("\nEnter 1st string:");gets(s1);
 printf("\nEnter 2nd string:");gets(s2);
 printf("\nEnter 3rd string:");gets(s3);
 l1= strlen(s1);l2= strlen(s2);
 printf("\nLength of 1st string is = %d",l1);
 printf("\nLength of 1st string is = %d",l2);
 strcpy(s4,s1);
 printf("\nCopy of 1st string is = ");puts(s4);
 strcpy(s5,s2);
 printf("\nCopy of 2nd string is = ");puts(s5);
 strcat(s1,s2);
 printf("\nConcatenated 1st & 2nd string is = ");puts(s1);
 if(strcmp(s1,s3)==0)
     printf("\nConcatenated(1st & 2nd) & 3rd Strings are
     equal.");
 else
     printf("\nConcatenated(1st & 2nd) & 3rd Strings are
     equal.");
}
int strlen(char *s)
{int i;
 for(i=0;s[i]!='\0';i++);return i;
}
void strcpy(char *s2,char *s1)
{int i,j,l;
 l= strlen(s1);
 for(i=0,j=0;i<l;i++)
     s2[j++]=s1[i];
 s2[j]='\0';
}
void strcat(char *s1,char *s2)
{int i,j,l;
 l= strlen(s1);
 for(i=0;s2[i]!='\0';i++)
     s1[l++]=s2[i];
 s1[l]='\0';
}
int strcmp(char *s1,char *s2)
{int i,j,f=0;
```

```
for(i=0;s1[i]!='\0';i++)
{for(j=0;s2[j]!='\0';j++)
{if(s1[i]!=s2[j])
{f=-1;return f;}
}
}
return f;
}
```

## **5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

## **6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to **start** menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :\>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

**6.8** Type your programs and after typing, go to **file** menu and click. Then go to **save as** menu and click. After clicking, you will enter your programs name and click **Ok** button.

**6.9** Go to **compile** menu and click **compile option**. After successfully compilation,

**6.10** you will go to **run** menu and click **run option**.

**6.11** Your output result will display.

## **7.0 SAFETY:**

**7.1** Properly shutdown the machine follows by those steps.

**7.1.1** Go to **start** menu and click.

**7.1.2** Click **shut down** option.

**7.1.3** Show a **shut down** window.

**7.1.4** Click the **radio** button corresponding to **shut down** option.

**7.1.5** Click **OK** button.

**7.2** Floppy/CD is not to be used.

## **8.0 DISPOSAL:**

Not applicable.

## **9.0 REPORT WRITING:**

**9.1** The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.

**9.2** Write your program with output.

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ANNEXURE-1

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TITLE: \_\_\_\_\_

OBJECTIVE: \_\_\_\_\_

Marks Obtained

Signature of the Sessional in -  
Charge

**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 21**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to determine whether a given string is palindrome or not.

**3.0 OBJECTIVE:** 'C' program to determine whether a given string is Palindrome or not.

**4.0 ALGORITHM :**

```
main()
{ char str[30];
  int l,i,j,f=1;
  printf("\nEnter any string:");
  gets(str);
  l=strlen(str);
  for(i=l-1,j=0;i>=0;i--,j++)
  { if(str[i]!=str[j])
    { f=0; break;
    }
    else
    { f=1;
      continue;
    }
  }
  if(f==0)
    printf("\nString is not palindrome.");
  else
    printf("\nString is palindrome.");
}
```

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

**6.8** Type your programs and after typing, go to file menu and click. Then go to save as menu and click. After clicking, you will enter your programs name and click Ok button.

**6.9** Go to compile menu and click compile option. After successfully compilation, you will go to run menu and click run option.

**6.10** Your output result will display.

**7.0 SAFETY:**

**7.1** Properly shutdown the machine follows by those steps.

- 7.1.1 Go to **start** menu and click.
- 7.1.2 Click **shut down** option.
- 7.1.3 Show a **shut down** window.
- 7.1.4 Click the **radio** button corresponding to **shut down** option.
- 7.1.5 Click **OK** button.
- 7.2 Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

- 9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.
- 9.2 Write your program with output.

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ANNEXURE-1

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TITLE: \_\_\_\_\_

OBJECTIVE: \_\_\_\_\_

Marks Obtained

Signature of the Sessional in -  
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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 22**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to store the name, roll no. & marks in 3 subjects of students using structure. Print the names of all students with average greater than 60%.

**3.0 OBJECTIVE:** 'C' program to store the name, roll no. & marks in 3 subjects of students using structure. Print the names of all students with average greater than 60%.

**4.0 ALGORITHM:**

```
struct student
{ char name[30];
  int roll,marks[3],avg;};
main()
{ struct student s[100];
  int i,j,n,sum;
  printf("\nEnter how many student(s) u want to store:");
  scanf("%d",&n);
  for(i=0;i<n;i++)
  { printf("\n\t\tData of %dth student",i);
    printf("\n\t\t=====");
    printf("\nEnter name::",i);
    fflush(stdin);
    gets(s[i].name);
    printf("\nEnter roll::");
    scanf("%d",&s[i].roll);
    for(j=0;j<3;j++)
    { printf("\nEnter marks[%d]::",j+1);
      scanf("%d",&s[i].marks[j]);
    }
  }
  printf("\nThe Student who have got average greater
  than 60% are::\n"); s[i].avg=0;
  for(i=0;i<n;i++)
  { sum=0;
    for(j=0;j<3;j++)
    { sum=sum+s[i].marks[j];
      s[i].avg=sum/3; }
    if(s[i].avg>60)
      puts(s[i].name);
  }
}
```

**5.0 FACILITIES REQUIRED:**

- 5.1** Computer-Hardware
- 5.2** Turbo C-Software

**6.0 PROCEDURE:**

- 6.1** Switch on the UPS and monitor.



- 6.2 Then switch on the CPU.
- 6.3 After OS is loaded, go to **start** menu and click.
- 6.4 Go to MS-DOS prompt and click. You will see : C:\WINDOWS>
- 6.5 Type **cd\** and then press Enter key. You will see: C :\>
- 6.6 Type **cd\tc\bin** and then press Enter key. You will see : C:\TC\BIN>
- 6.7 Type **tc** and then press Enter key. Open tc editor window.
- 6.8 Type your programs and after typing, go to **file** menu and click. Then go to **save as** menu and click. After clicking, you will enter your programs name and click **Ok** button.
- 6.9 Go to **compile** menu and click **compile option**. After successfully compilation, you will go to **run** menu and click **run option**.
- 6.10 Your output result will display.

#### 7.0 SAFETY:

- 7.1 Properly shutdown the machine follows by those steps.
  - 7.1.1 Go to **start** menu and click.
  - 7.1.2 Click **shut down** option.
  - 7.1.3 Show a **shut down** window.
  - 7.1.4 Click the **radio** button corresponding to **shut down** option.
  - 7.1.5 Click **OK** button.
- 7.2 Floppy/CD is not to be used.

#### 8.0 DISPOSAL:

Not applicable.

#### 9.0 REPORT WRITING:

- 9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.
- 9.2 Write your program with output.

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TITLE: \_\_\_\_\_

OBJECTIVE: \_\_\_\_\_

Marks Obtained

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Charge

**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 23**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to copy a disk file into another disk file using command line arguments.

**3.0 OBJECTIVE:** 'C' program to copy a disk file into another disk file using command line arguments.

**4.0 ALGORITHM :**

```
main(int argc, char * argv[])
{
    FILE *fs, *ft;
    char ch;
    if(argc!=3)
    {
        printf("\nImproper number of arguments");exit(0);
    }
    fs=fopen(argv[1], "r");
    if(fs==NULL)
    {
        printf("\nCannot open source file.");exit(0);
    }
    ft=fopen(argv[2], "w");
    if(ft==NULL)
    {
        printf("\nCannot open source file.");
        fclose(fs);exit(0);
    }
    while(1)
    {
        ch=fgetc(fs);
        if(ch==EOF) break;
        fputc(ch, ft);
    }
    fclose(fs);fclose(ft);
}
```

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

- 6.8 Type your programs and after typing, go to **file** menu and click. Then go to **save as** menu and click. After clicking, you will enter your programs name and click **Ok** button.
- 6.9 Go to **compile** menu and click **compile option**. After successfully compilation, you will go to **run** menu and click **run** option.
- 6.10 Your output result will display.

**7.0 SAFETY:**

- 7.1 Properly shutdown the machine follows by those steps.
  - 7.1.1 Go to **start** menu and click.
  - 7.1.2 Click **shut down** option.
  - 7.1.3 Show a **shut down** window.
  - 7.1.4 Click the **radio** button corresponding to **shut down** option.
  - 7.1.5 Click **OK** button.
- 7.2 Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

- 9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.
- 9.2 Write your program with output.

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TITLE: \_\_\_\_\_

OBJECTIVE: \_\_\_\_\_

Marks Obtained

Signature of the Sessional in -  
Charge

**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 24**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to count the number of lines, words and characters in a given File.

**3.0 OBJECTIVE:** 'C' program to count the number of lines, words and characters in a given File.

**4.0 ALGORITHM :**

```
main()
{ FILE *fp;
  int nol=0,now=0,noc=0;char ch;
  fp=fopen("ass23.cpp","r");
  if(fp==NULL)
  {printf("\nCannot open file");exit(0);}
  while(1)
  {ch=fgetc(fp);
   if(ch==EOF) break;
   if(ch=='\n') nol++;
   else if(ch==' ') now++;
   else noc++;
  }
  fclose(fp);
  printf("\nThe no.of line = %d",nol);
  printf("\nThe no.of word = %d",now);
  printf("\nThe no.of character = %d",noc);
}
```

**5.0 FACILITIES REQUIRED:**

**5.1 Computer-Hardware**

**5.2 Turbo C-Software**

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

**6.8** Type your programs and after typing, go to file menu and click. Then go to save as menu and click. After clicking, you will enter your programs name and click Ok button.

**6.9** Go to compile menu and click compile option. After successfully compilation, you will go to run menu and click run option.

**6.10** Your output result will display.

**7.0 SAFETY:**

**7.1** Properly shutdown the machine follows by those steps.



- 7.1.1 Go to **start** menu and click.
- 7.1.2 Click **shut down** option.
- 7.1.3 Show a **shut down** window.
- 7.1.4 Click the **radio** button corresponding to **shut down** option.
- 7.1.5 Click **OK** button.
- 7.2 Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

- 9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.
- 9.2 Write your program with output.



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ANNEXURE-1

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TITLE: \_\_\_\_\_

OBJECTIVE: \_\_\_\_\_

Marks Obtained

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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 25**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to display the frequency of characters in a given file.

**3.0 OBJECTIVE:** 'C' program to display the frequency of characters in a in a given file.

**4.0 ALGORITHM :**

```
main()
{
    int f[256],i;
    char c,sfile[20];
    FILE *fp;
    printf("\nEnter a file name:");
    scanf("%s",sfile);
    if((fp=fopen(sfile,"r"))==NULL)
    {
        printf("\nCan not open file %s",sfile);
        exit(0);
    }
    /* initializing count */
    for(i=0;i<256;i++)
        f[i]=0;
    while((c=getc(fp))!=EOF)
    {
        ++f[c]; /* counter corresponding current
                ASCII character is incremented */
    }
    /* printing result */
    for(i=0;i<256;i++)
    {
        if(f[i]>0)
            printf("\n%c occurs %d times.",i,f[i]);
    }
}
```

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

- 6.8 Type your programs and after typing, go to **file** menu and click. Then go to **save as** menu and click. After clicking, you will enter your programs name and click **Ok** button.
- 6.9 Go to **compile** menu and click **compile option**. After successfully compilation, you will go to **run** menu and click **run** option.
- 6.10 Your output result will display.

**7.0 SAFETY:**

- 7.1 Properly shutdown the machine follows by those steps.
  - 7.1.1 Go to **start** menu and click.
  - 7.1.2 Click **shut down** option.
  - 7.1.3 Show a **shut down** window.
  - 7.1.4 Click the **radio** button corresponding to **shut down** option.
  - 7.1.5 Click **OK** button.
- 7.2 Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

- 9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.
- 9.2 Write your program with output.

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OBJECTIVE: \_\_\_\_\_

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**WORK INSTRUCTION**

**1.0 ASSIGNMENT NO.: 26**

**2.0 ASSIGNMENT NAME:** Write a 'C' program to swap of two variables using call by reference.

**3.0 OBJECTIVE:** 'C' program to swap of two variables using call by reference.

**4.0 ALGORITHM :**

```
main()
{ int a,b;
  printf("\nEnter two integer variables:");
  scanf("%d %d",&a,&b);
  printf("\nThe values of two variables before swap:\n");
  printf(" %d %d",a,b);
  swap(&a,&b);
  printf("\nThe values of two variables after swap:\n");
  printf(" %d %d",a,b);
}
void swap(int *x,int *y)
{ int t;
  t=*x;*x=*y;*y=t;
}
```

**5.0 FACILITIES REQUIRED:**

**5.1** Computer-Hardware

**5.2** Turbo C-Software

**6.0 PROCEDURE:**

**6.1** Switch on the UPS and monitor.

**6.2** Then switch on the CPU.

**6.3** After OS is loaded, go to start menu and click.

**6.4** Go to MS-DOS prompt and click. You will see : C:\WINDOWS>

**6.5** Type cd\ and then press Enter key. You will see: C :\>

**6.6** Type cd\tc\bin and then press Enter key. You will see : C:\TC\BIN>

**6.7** Type tc and then press Enter key. Open tc editor window.

**6.8** Type your programs and after typing, go to file menu and click. Then go to save as menu and click. After clicking, you will enter your programs name and click Ok button.

**6.9** Go to compile menu and click compile option. After successfully compilation, you will go to run menu and click run option.

**6.10** Your output result will display.

**7.0 SAFETY:**

**7.1** Properly shutdown the machine follows by those steps.

**7.1.1** Go to start menu and click.

**7.1.2** Click shut down option.

7.1.3 Show a **shut down** window.

7.1.4 Click the **radio** button corresponding to **shut down** option.

7.1.5 Click **OK** button.

7.2 Floppy/CD is not to be used.

**8.0 DISPOSAL:**

Not applicable.

**9.0 REPORT WRITING:**

9.1 The 1<sup>st</sup> Page of the report shall be as per the format shown in Annexure – 1.

9.2 Write your program with output.

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OBJECTIVE: \_\_\_\_\_

Marks Obtained

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