

THE NEOTIA UNIVERSITY
Web Design and Application
Lab Manual

LIST OF EXPERIMENTS

Sl No	Title	Page no.
1.	<p>Develop and demonstrate a XHTML file that includes Javascript script for the following problems:</p> <p>a) Input: A number n obtained using prompt Output: The first n Fibonacci numbers</p> <p>b) Input: A number n obtained using prompt Output: A table of numbers from 1 to n and their squares using alert</p>	10- 15
2.	<p>a) Develop and demonstrate, using Javascript script, a XHTML document that collects the USN (the valid format is: A digit from 1 to 4 followed by two upper- case characters followed by two digits followed by two upper-case characters followed by three digits; no embedded spaces allowed) of the user. Event handler must be included for the form element that collects this information to validate the input. Messages in the alert windows must be produced when errors are detected.</p> <p>b) Modify the above program to get the current semester also (restricted to be a number from 1 to 8)</p>	16- 21
3.	<p>a) Develop and demonstrate, using Javascript script, a XHTML document that contains three short paragraphs of text, stacked on top of each other, with only enough of each showing so that the mouse cursor can be placed over some part of them. When the cursor is placed over the exposed part of any paragraph, it should rise to the top to become completely visible.</p> <p>b) Modify the above document so that when a paragraph is moved from the top stacking position, it returns to its original position rather than to the bottom.</p>	22-26
4.	<p>a) Design an XML document to store information about a student in an engineering college affiliated to VTU. The information must include USN, Name, and Name of the College, Brach, Year of Joining, and e-mail id. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document.</p> <p>b) Create an XSLT style sheet for one student element of the above document and</p>	27- 31

	use it to create a display of that element.	
5.	a) Write a Perl program to display various Server Information like Server Name, Server Software, Server protocol, CGI Revision etc. b) Write a Perl program to accept UNIX command from a HTML form and to display the output of the command executed.	32- 35
6.	a) Write a Perl program to accept the User Name and display a greeting message randomly chosen from a list of 4 greeting messages. b) Write a Perl program to keep track of the number of visitors visiting the web page and to display this count of visitors, with proper headings.	36-38
7.	Write a Perl program to display a digital clock which displays the current time of the server.	39
8.	Write a Perl program to insert name and age information entered by the user into a table created using MySQL and to display the current contents of this table.	40-42
9.	Write a PHP program to store current date-time in a COOKIE and display the ‘Last visited on’ date-time on the web page upon reopening of the same page.	43-44
10.	Write a PHP program to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page.	45-46
11.	Create a XHTML form with Name, Address Line 1, Address Line 2, and E-mail text fields. On submitting, store the values in MySQL table. Retrieve and display the data based on Name.	47- 52
12.	Build a Rails application to accept book information viz. Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the title specified by the user and to display the search results with proper headings.	62

EXPERIMENT NO. 1(a)

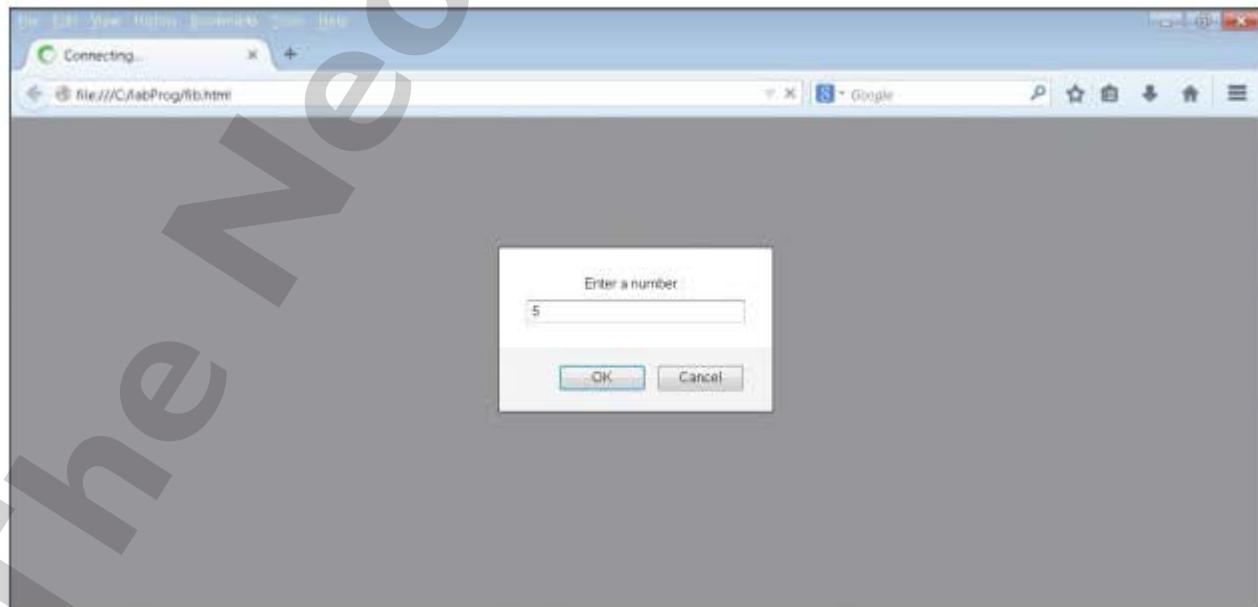
AIM: To display Fibonacci series using Javascript

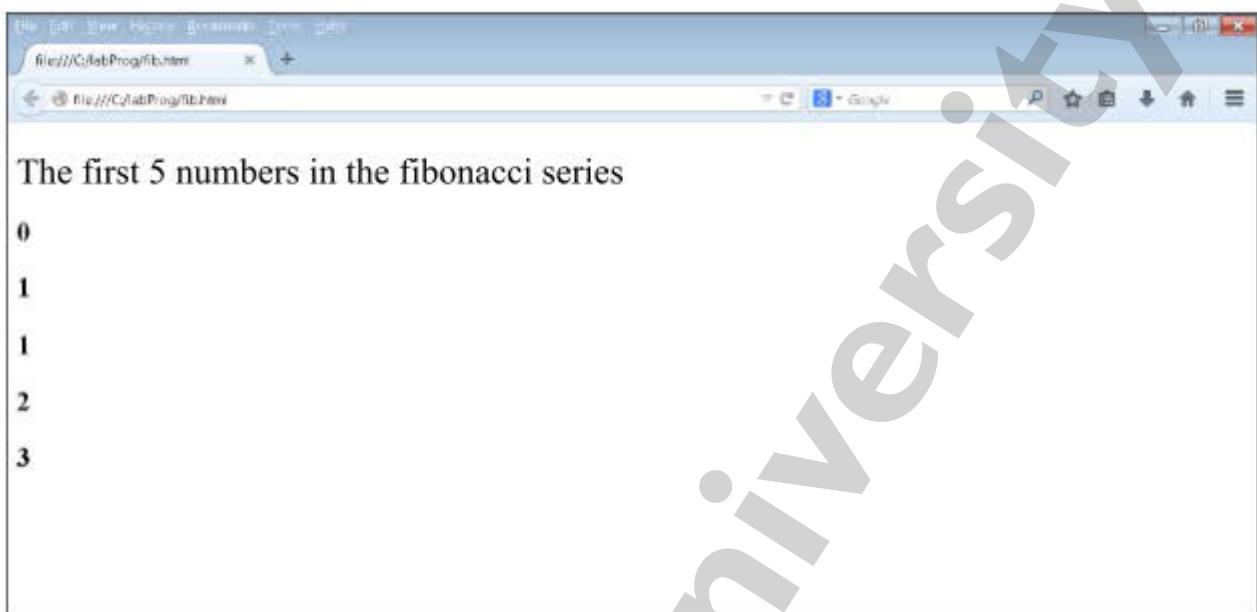
PROGRAM:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Fibonacci Series</title>
</head>
<body>
<script type="text/javascript">
    var fib1=0,fib2=1,fib=0;
    var num=prompt("Enter a number : \n", "");
    if(num != null && num > 0 )
    {
        document.write("<h1>The first "+num+" numbers in the fibonacci series
</h1>");
        if(num==1)
            document.write("<h2> "+ fib1 + "</h2>");
        else
        {
            document.write("<h2>" + fib1 + "</h2>");
            document.write("<h2>" + fib2 + "</h2>");
        }
        for(i=3;i<=num; i++)
    }
```

```
(  
    fib=fib1 + fib2;  
    document.write(  
        "<h2> " + fib +  
        "</h2>");  
    fib1=fib2;  
    fib2=fib;  
}  
}  
else  
    alert("Invalid Input");  
</script>  
</body>  
</html>
```

SAMPLE OUTPUT





EXPERIMENT NO. 1(b)

PROGRAM:

AIM: To display the square of a given numbers using Javascript

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">  
  
<html xmlns="http://www.w3.org/1999/xhtml">  
  
<head>  
    <title>Number and its squares</title>  
</head>  
  
<body>  
    <script type="text/javascript">  
  
        var num = prompt("Enter a number : \n", "");  
        var msgstr;  
  
        if(num > 0 && num !=null){  
            msgstr="Number and its Squares are \n";  
            for(i=1;i <= num; i++)  
            {  
                msgstr = msgstr + i + " ^ 2 = " + i*i + "\n";  
            }  
            alert(msgstr);  
        }  
        else  
    </script>
```

```
        alert("Invalid Input");

    </script>

</body>

</html>
```

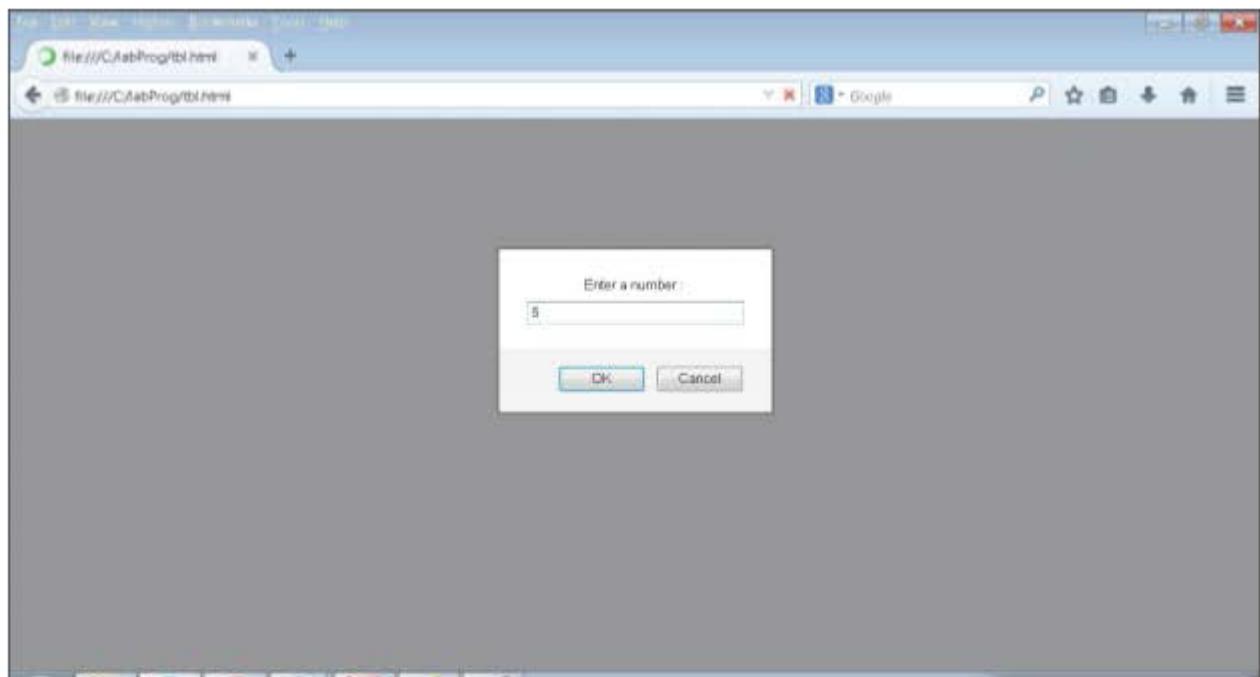
Note:

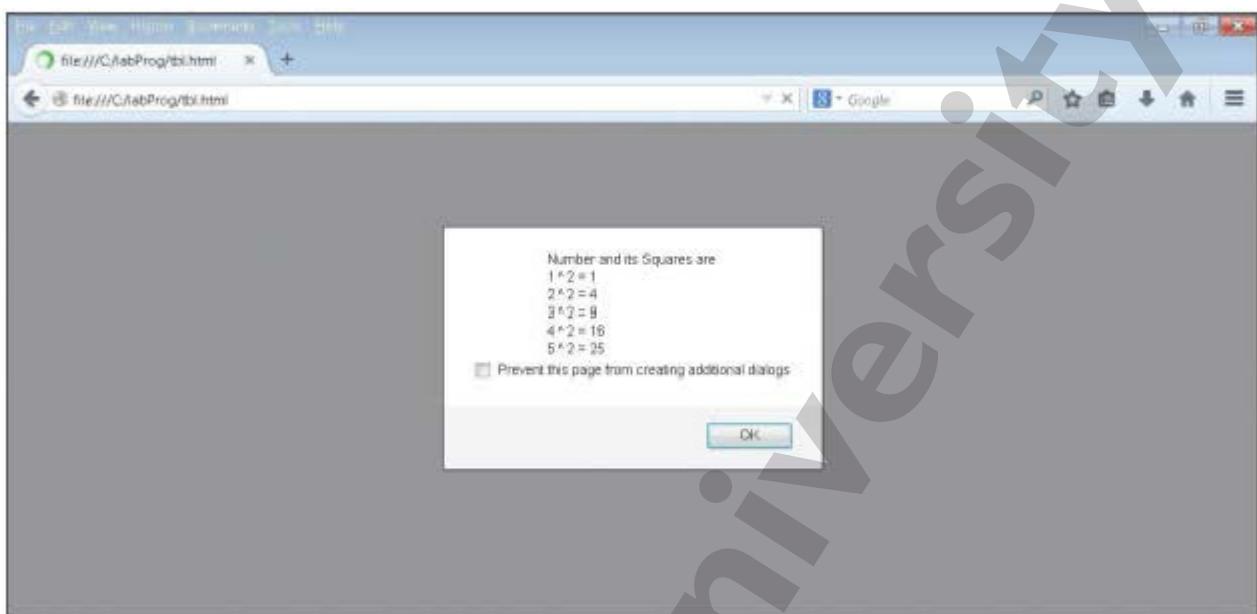
The `\u00B2` character displays superscript 2 in the javascript boxes.

Code:

```
msgstr = msgstr + i + "\u00B2 = " + i*i + "\n";
```

SAMPLE OUTPUT





EXPERIMENT NO. 2(a)

AIM: To validate the USN of the student and to print them

PROGRAM:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<title> USN validator </title>

<script type="text/javascript">

function formValidator()

{

    var usn = document.getElementById('usnFrm');

    usnExp=/[1-4][A-Z][A-Z]\d{2}[A-Z][A-Z]\d{3}\$/;

    if(usn.value.length==0)

    {

        alert("USN is empty.");

        usn.focus();

        return false;

    }

    else if(!usn.value.match(usnExp))

    {

        alert("USN should be in VTU USN format, eg., 1GD10CS001");

    }

}

</script>
```

```
        usn.focus();

        return false;
    }

    alert("USN: "+usn.value+" is in correct format");

    return true;
}

</script>

</head>

<body>

<form onSubmit = "formValidator()">

    Enter your VTUUSN :<input type="text" id="usnFrm"/>

    <br />

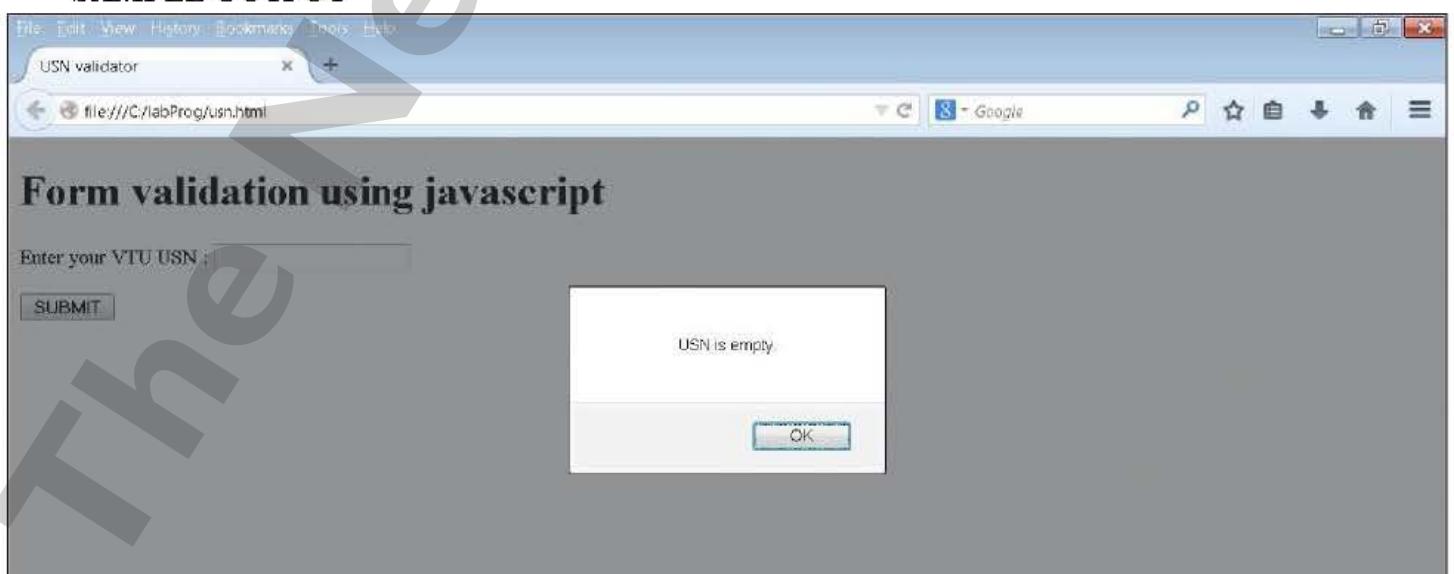
    <input type ="submit" value="SUBMIT"/>

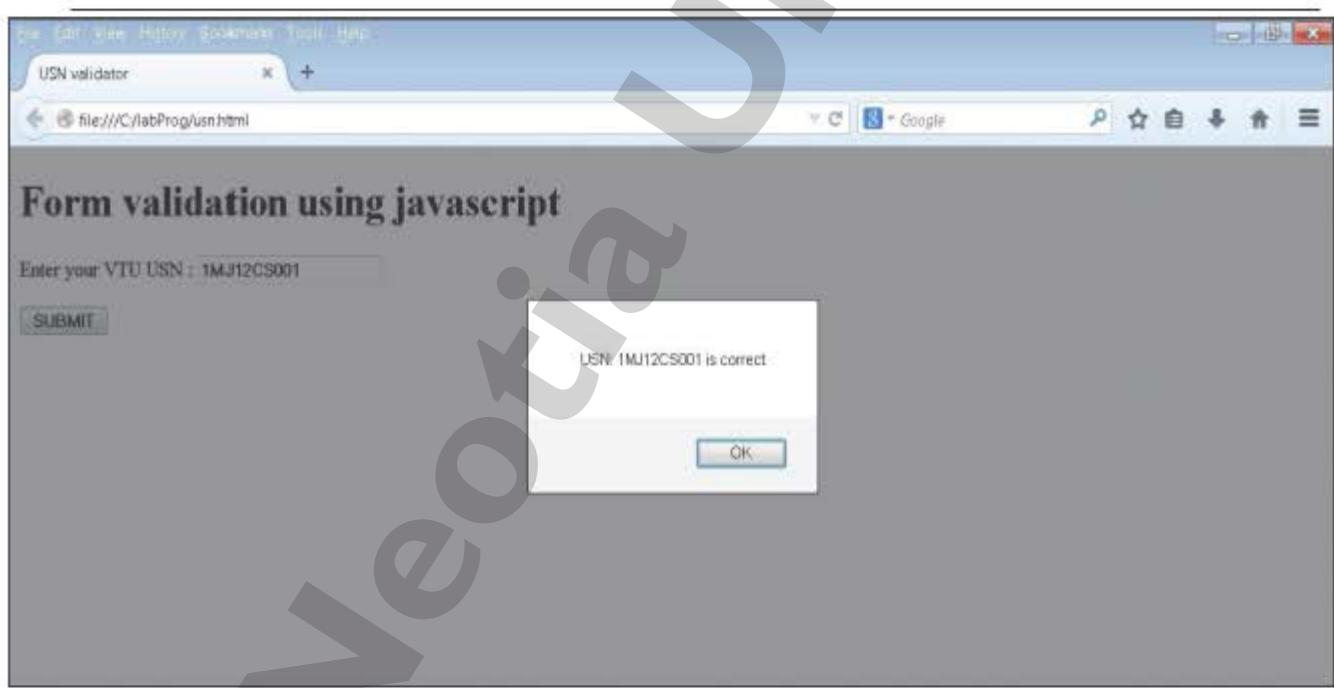
</form>

</body>

</html>
```

SAMPLE OUTPUT





Form validation using javascript

Enter your VTU USN : 1 MJ

Form validation using javascript

Enter your VTU USN : 1MJ12CS001

SUBMIT

USN/1MJ12CS001 is correct.

OK

EXPERIMENT No.2(b)

PROGRAM: To display the current semester

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title> USN validator </title>

<script type="text/javascript">
function formValidator()
{
    var usn = document.getElementById('usnFrm');
    var sem = document.getElementById('semFrm');

    usnExp=/[1-4][A-Z][A-Z]\d{2}[A-Z][A-Z]\d{3}/
    semExp=/^([1-8])/

    if(usn.value.length==0)
    {
        alert("USN is empty.");
        usn.focus();
        return false;
    }
    else if(!usn.value.match(usnExp))
    {
        alert("USN should be in VTU USN format, e.g.,
        1GD10CS001"); usn.focus();
        return false;
    }
    else if(sem.value.length==0)
    {
        alert("Semester field is empty.");
        sem.focus();
        return false;
    }
    else if(!sem.value.match(semExp))
    {
        alert("Semester number should be from 1 to
        8"); sem.focus();
        return false;
    }
    alert("USN: "+usn.value+"\n Semester: "+sem.value);
    return true;
}
```

```
</script>
</head>
<body>
<h1>Form validation using javascript</h1>
form validation using javascript
<form onSubmit="formValidator()">
    <p>Enter your VTU USN : <input type="text" id="usnFrm"/>
    Enter your current semester</p>
    <p>Enter your current semester : <input type="text" id="semFrm" />
        </p>
        <input type = "submit" value="SUBMIT" />
    </form>
</body>
</html>
```

SAMPLE OUTPUT



EXPERIMENT No.3(a)

AIM: To display the stacking of elements

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">  
  <head>  
    <title>Paragraph Stacking </title>  
  
    <style type="text/css">  
      .para  
      {  
        border: solid thin black;  
        padding: 1cm;  
        position: absolute;  
        width: 300px;  
      }  
      #layer1  
      {  
        z-index: 3;  
      }  
      #layer2  
      {  
        z-index: 2;  
      }  
      #layer3  
      {  
        z-index: 1;  
      }  
    </style>
```

b
a
c
k
g
r
o
u
n
d
-
c
o
l
o
r
:
y
e
l
l
o
w
;
t
o
p
:

```
2  
0  
0  
p  
x  
;  
1  
e  
f  
t  
:  
4  
0  
0  
p  
x  
;  
z-index:1;
```

```
b  
a  
c  
k  
g  
r  
o  
u  
n  
d  
-  
c  
o  
l  
o  
r  
:  
r  
e  
d  
;  
p  
o  
s  
i  
t  
i  
o
```

```
n  
:  
a  
b  
s  
o  
l  
u  
t  
e  
;  
t  
o  
p  
:  
2  
2  
0  
p  
x  
;  
1  
e  
f  
t  
:  
4  
2  
0  
p  
x  
;  
z  
-  
i  
n  
d  
e  
x  
:  
2  
;
```

```
b  
a  
c  
k
```

g
r
o
u
n
d
-
c
o
1
o
r
:
b
1
u
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;
t
o
p
:
2
4
0

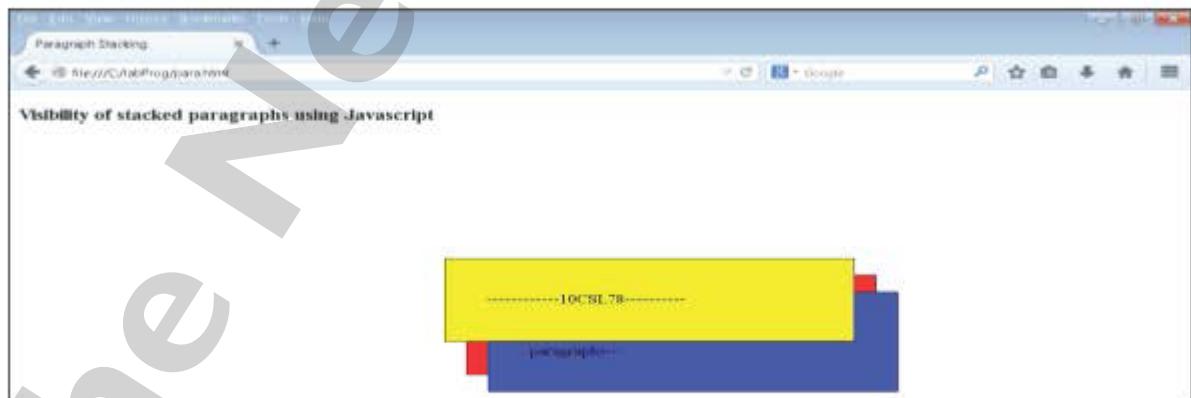
p
x
;
l
e
f
t
:
4
4
0
p
x
;
z
-
i
n
d
e
x
:
3
;

```
<script type="text/javascript">
    var topLayer = "layer3";
    function mover(toTop) {
        var oldTop = document.getElementById(topLayer).style;
        var newTop = document.getElementById(toTop).style;
        oldTop.zIndex = 0;
        newTop.zIndex = 5;
    }
</script>
```

```
        topLayer = document.getElementById(toTop).id;
    }
</script>
</head>
<body>

<h3>Visibility of stacked paragraphs using Javascript</h3>
<div id="layer1" class="para" onMouseOver="mouseover('layer1')">
    -----10CSL78-----</div>
<div id="layer2" class="para" onMouseOver="mouseover('layer2')">
    -----Web Programming Laboratory-----</div>
<div id="layer3" class="para" onMouseOver="mouseover('layer3')">
    -----Experiment 5a - Stacking of paragraphs-----</div>
</body>
</html>
```

SAMPLE OUTPUT



EXPERIMENT No.3(b)

AIM: To display the stacking of elements

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">  
<html xmlns="http://www.w3.org/1999/xhtml">  
  <head>  
    <title>Paragraph Stacking </title>  
    <style type="text/css">  
      .para  
      {  
        border: solid thin black;  
        padding: 1cm;  
        position: absolute;  
        width: 300px;  
      }  
      #layer1  
      {  
        z-index: 3;  
        top: 10px;  
        left: 10px;  
      }  
      #layer2  
      {  
        z-index: 2;  
        top: 50px;  
        left: 50px;  
      }  
      #layer3  
      {  
        z-index: 1;  
        top: 90px;  
        left: 90px;  
      }  
    </style>
```

b
a
c
k
g
r
o
u
n
d
-
c
o
l
o
r
:
y
e
l
l
o
w
;
t
o
p
:
2
0
0

```
p  
x  
;  
1  
e  
f  
t  
:  
4  
0  
0  
p  
x  
;  
z-index:1;
```

```
b  
a  
c  
k  
g  
r  
o  
u  
n  
d  
-  
c  
o  
l  
o  
r  
:  
r  
e  
d  
;  
p  
o  
s  
i  
t  
i  
o  
n  
:  
a
```

```
b  
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l  
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e  
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t  
o  
p  
:  
2  
2  
0  
p  
x  
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1  
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4  
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p  
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c  
k  
g  
r  
o
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u
n
d
-
c
o
1
o
r
:
b
l
u
e
;
t
o
p
:
2
4
0
p

x
;
l
e
f
t
:
4
4
0
p
x
;
z
-
i
n
d
e
x
:
3
;

```
<script type="text/javascript">
    var topLayer = "layer3";
    var origPos;
    function mover(toTop, pos) {
        var newTop = document.getElementById(toTop).style;

        newTop.zIndex = 5;
        topLayer = document.getElementById(toTop).id;
        origPos = pos;
```

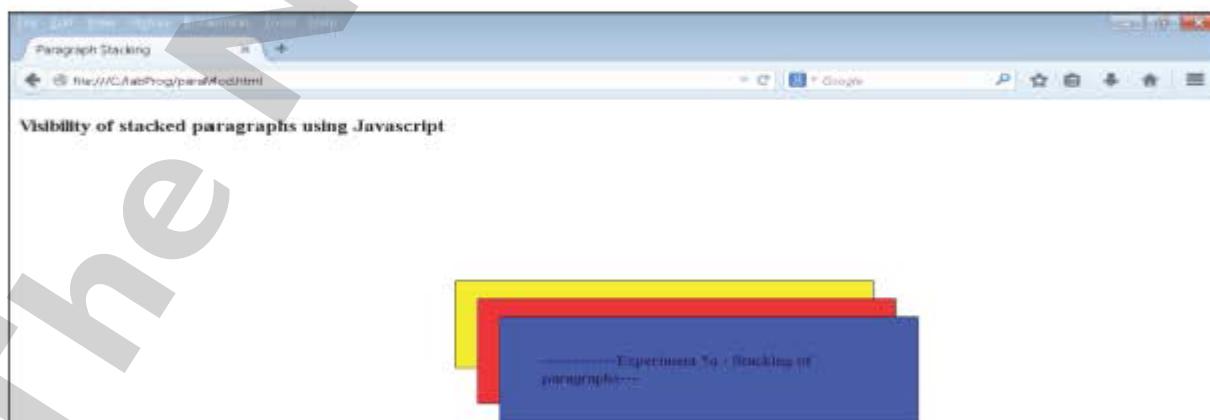
```

        }

function moveBack()
{
    var layer = document.getElementById(topLayer).style;
    layer.zIndex=origPos;
}
</script>
</head>
<body>
    <h3>Visibility of stacked paragraphs using Javascript</h3>
<div id="layer1" class="para" onMouseOver="mouseover(layer1,'1')" onMouseOut="moveBack()">
    _____10CSL78_____
<div id="layer2" class="para" onMouseOver="mouseover(layer2,'2')" onMouseOut="moveBack()">
    -----Web Programming Laboratory-----</div>
<div id="layer3" class="para" onMouseOver="mouseover(layer3,'3')" onMouseOut="moveBack()">
    -----Experiment 5a - Stacking of paragraphs-----</div>
</body>
</html>

```

SAMPLE OUTPUT



EXPERIMENT No.4(a)

AIM: To read student details using XML

1. studentDetails.xml

```
<?xml version="1.0" encoding="utf-8"?>
<?xml-stylesheet type="text/css" href="student.css"?>
<VTU>
    <STUDENT>
        <USN>1GD11CS001</USN>
        <NAME>Arun Kumar</NAME>
        <COLLEGE> GOPALAN College of Engineering</COLLEGE>
        <BRANCH>Computer Science and Engineering</BRANCH>
        <YEAR>2011</YEAR>
        <EMAILID>arunk@gmail.com</EMAILID>
    </STUDENT>

    <STUDENT>
        <USN>1GD10ME012</USN>
        <NAME>Swaroop J</NAME>
        <COLLEGE> GOPALAN College of Engineering</COLLEGE>
        <BRANCH>Mechanical Engineering</BRANCH>
        <YEAR>2010</YEAR>
        <EMAILID>swaroopj@gmail.com</EMAILID>
    </STUDENT>

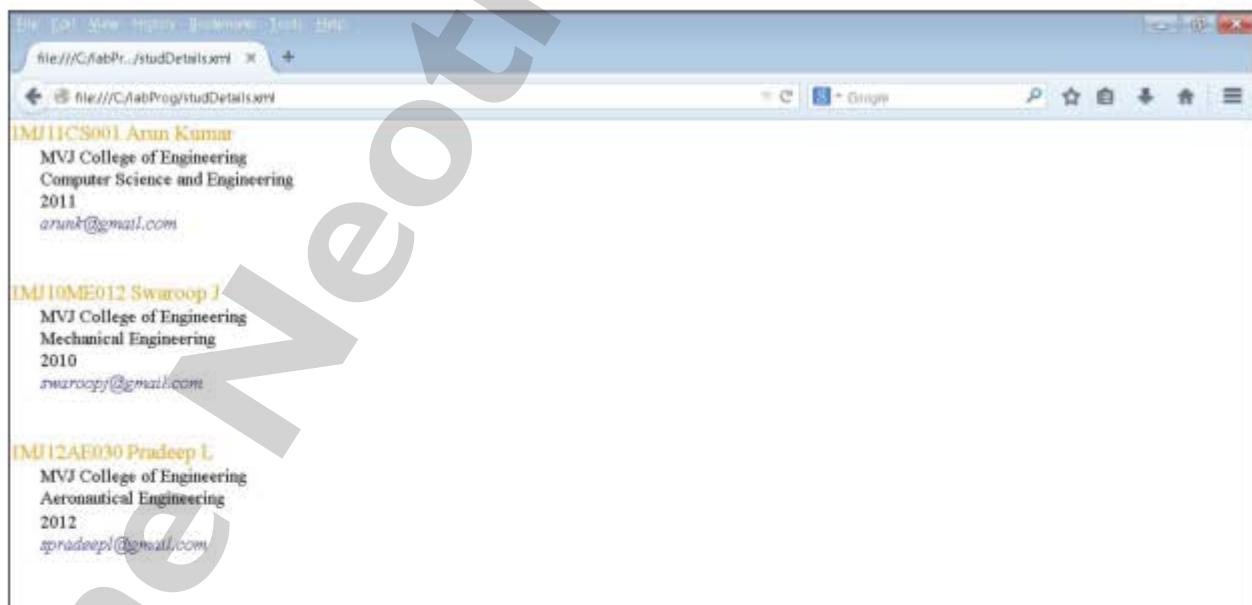
    <STUDENT>
        <USN>1GD12CS030</USN>
        <NAME>Pradeep L</NAME>
        <COLLEGE> GOPALAN College of Engineering</COLLEGE>
        <BRANCH> Computer Science and Engineering </BRANCH>
        <YEAR>2012</YEAR>
        <EMAILID>spradeepl@gmail.com</EMAILID>
    </STUDENT>
</VTU>
```

2. student.css

```
VTU
{
background-color: #ffFFff;
width: 100%;
}
STUDENT
{
display: block;
margin-bottom: 30pt;
```

```
margin-left: 0;  
}  
USN,NAME  
{  
color:  
#FF9900;  
font-size: 14pt;  
}  
  
COLLEGE,BRANCH,YEAR  
{  
display: block;  
color: #000000;  
margin-left: 20pt;  
}  
EMAILID  
{  
display: block;  
color: #0000FF;  
margin-left: 20pt;  
font-style: italic;  
}
```

SAMPLE OUTPUT



EXPERIMENT No.4(b)

AIM: To display the student details using XML

1. studentDetails.xml

```
<?xml version="1.0" encoding="utf-8"?>
<?xml-stylesheet type="text/xsl" href="student.xsl"?><VTU>
    <STUDENT>
        <USN>1GD11CS001</USN>
        <NAME>Arun Kumar</NAME>
        <COLLEGE>GOPALAN College of Engineering</COLLEGE>
        <BRANCH>Computer Science and Engineering</BRANCH>
        <YEAR>2011</YEAR>
        <EMAILID>arunk@gmail.com</EMAILID>
    </STUDENT>

    <STUDENT>
        <USN>1GD10ME012</USN>
        <NAME>Swaroop J</NAME>
        <COLLEGE> GOPALAN College of Engineering</COLLEGE>
        <BRANCH>Mechanical Engineering</BRANCH>
        <YEAR>2010</YEAR>
        <EMAILID>swaroopj@gmail.com</EMAILID>
    </STUDENT>

    <STUDENT>
        <USN>1GD12CS030</USN>
        <NAME>Pradeep L</NAME>
        <COLLEGE> GOPALAN College of Engineering</COLLEGE>
        <BRANCH> Computer Science and Engineering </BRANCH>
        <YEAR>2012</YEAR>
        <EMAILID>spradeepl@gmail.com</EMAILID>
    </STUDENT>
</VTU>
```

2. student.xsl

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">

    <html>
        <head>
```

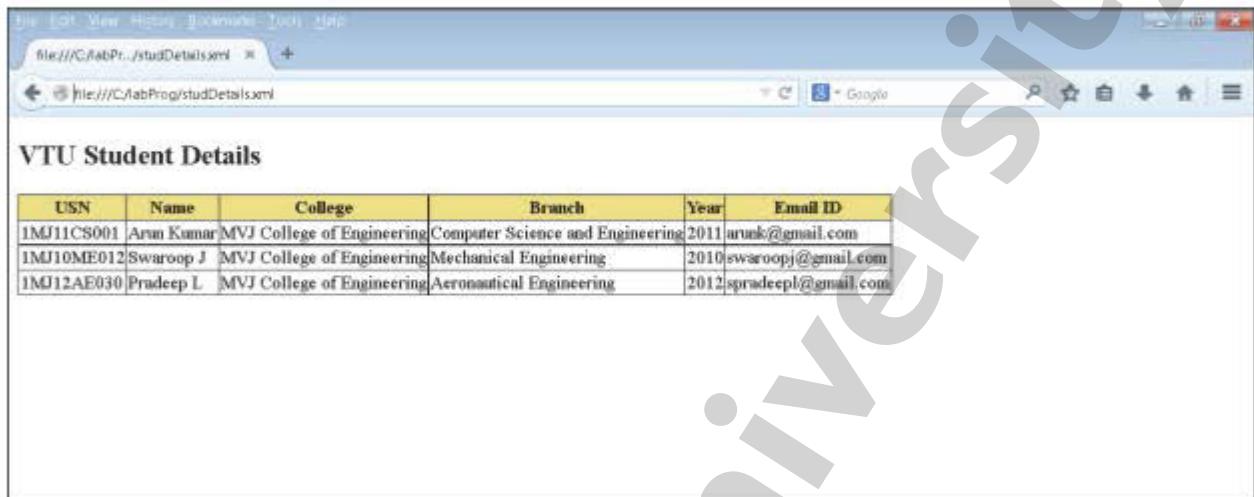
The Neotia University

```
<style>
table,th,td
{
```

```
border:1px solid black;
border-collapse:collapse;
}
</style>
</head>
<body>
<h2>VTU Student Details</h2>
<table>
<tr bgcolor="#EEDD82" >
<th> USN</th>
<th> Name </th>
<th>College </th>
<th> Branch </th>
<th> Year </th>
<th> Email ID </th>
</tr>
<xsl:for-each select="VTU/STUDENT">
<tr>
<td><xsl:value-of select="USN"/></td>
<td><xsl:value-of select="NAME"/></td>
<td><xsl:value-of select="COLLEGE"/></td>
<td><xsl:value-of select="BRANCH"/></td>
<td><xsl:value-of select="YEAR"/></td>
<td><xsl:value-of select="EMAILID"/></td>
</tr>
</xsl:for-each>
</table>
</body>
</html>
</xsl:template>

</xsl:stylesheet>
```

SAMPLE OUTPUT



A screenshot of a Microsoft Internet Explorer browser window. The title bar says "file:///C:/labProg/studDetailsxml". The address bar shows "file:///C:/labProg/studDetailsxml". The page content is titled "VTU Student Details" and displays a table of student information.

USN	Name	College	Branch	Year	Email ID
1MJ11CS001	Arun Kumar	MVJ College of Engineering	Computer Science and Engineering	2011	arunk@gmail.com
1MJ10ME012	Swaroop J	MVJ College of Engineering	Mechanical Engineering	2010	swaroopj@gmail.com
1MJ12AE030	Pradeep L	MVJ College of Engineering	Aeronautical Engineering	2012	pradeepl@gmail.com

EXPERIMENT No.5(a)

AIM: To display server information using Perl Programming

```
#!/usr/bin/perl -w

use CGI qw(:standard);
use CGI::Carp qw(warningsToBrowser fatsalsToBrowser);

print "content-type:text/html","\\n\\n";
print "<html>\\n";
print "<head> <title> About this server </title> </head>\\n";
print "<body><h1> About this server </h1>","\\n";
print "<p> This information is sent by web server to every CGI program./";

print "<hr />";
print "Server name : ",$ENV{'SERVER_NAME'},"<br />";
print "Running on port : ",$ENV{'SERVER_PORT'},"<br />";
print "Server Software : ",$ENV{'SERVER_SOFTWARE'},"<br />";
print "CGI-Revision : ",$ENV{'GATEWAY_INTERFACE'},"<br />";

print "Root Directory of Server : ";
"$ENV{'DOCUMENT_ROOT'},"<br />; print "Browser Type : ";
"$ENV{'HTTP_USER_AGENT'},"<br />; print "Full pathname of current CGI: ";
"$ENV{'SCRIPT_FILENAME'},"<br />; print
"<hr />\\n";
print "</body></html>\\n";
exit(0);
```

SAMPLE OUTPUT



EXPERIMENT No.5(b)

AIM : To execute UNIX commands and to display the output

b) Write a Perl program to accept UNIX command from a HTML form and to display the output of the command executed.

1. cmd.html

```
<html>
<head>
    <title>Execute UNIX Command </title>
</head>

<body>
    <h3> Execute a UNIX Command </h3></title>
    <form action="http://localhost/cgi-bin/cmd.pl" method="GET">
        Enter a UNIX command : <input type="text" name="com" />
        <input type="submit" value="Execute Command" />
    </form>
</body>
</html>
```

2. cmd.pl (*Store in /var/www/cgi-bin directory, change permissions using chmod 777 cmd.pl*)

```
#!/usr/bin/perl -w

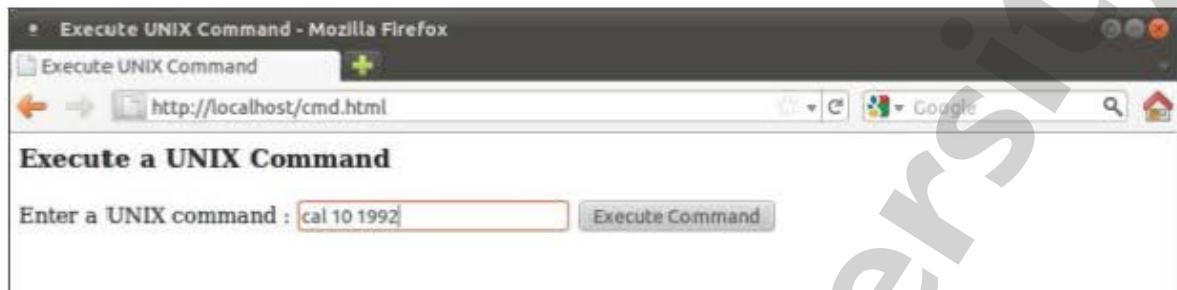
use CGI qw(:standard);
use CGI::Carp qw(warningsToBrowser fatsalsToBrowser);

print "content-type: text/html \n\n";
print "<html>\n";
print "<head> <title> Execute UNIX Command </title> </head>\n";

$c=param('com');
print "<body><h1> Execute UNIX Command</h1>\n";
print "<h3>", $c, "</h3>\n";
print "<a href='$ENV{HTTP_REFERER}>Back</a>";

print "<pre>";
system($c);
print "</pre>";
print "</body></html>\n";
exit(0);
```

SAMPLE OUTPUT



EXPERIMENT No.6(a)

AIM: To display the messages randomly and to display the number of users visiting the pages using Perl Programming

1. greetings.pl

```
#!/usr/bin/perl -w

use CGI qw(:standard);
use CGI::Carp qw(warningsToBrowser fatsalsToBrowser);

@coins = ("Welcome to Web Programming Lab", "Have a nice time in lab", "Practice all the
          programs", "Well done Good Day");
$range = scalar (@coins);
$random = int(rand($range));

print header();
print start_html(-title=>"Greetings", -bgcolor=>"#FFD800",      -text=>"#800000");
print h1("Random Greetings");

if(param)
{
    $cmd=param("name");
    print b("Hello $cmd, $coins[$random]"),br();
    print start_form();
    print submit(-value=>"Back");
    print end_form();
}
else
{
    print h3("Enter your Name ");
    print      start_form(),textfield(-name=>"name",-value=>""),
              submit(-name=>"submit",-
                     value=>"Submit"), reset();
    print end_form();
}

print end_html();
```

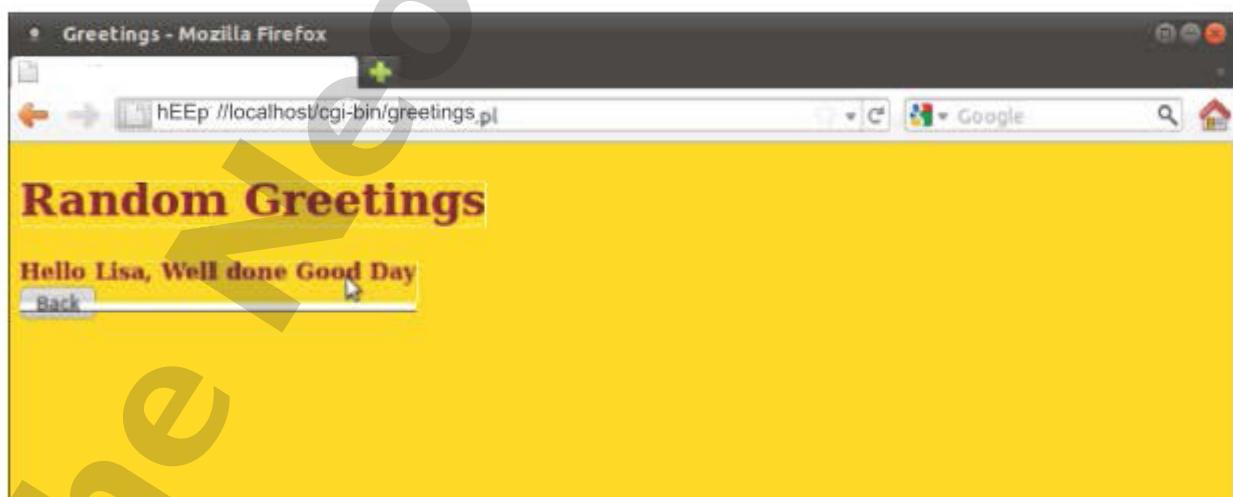
SAMPLE OUTPUT

hEEp://localhost/cgi-bin/greetings.pl

C S Google

Arun|

Submit ReseL



EXPERIMENT No.6(a)

AIM: To display the messages randomly and to display the number of user's visiting the pages using Perl Programming

2. count.pl

```
#!/usr/bin/perl -w
```

```
use CGI qw(:standard);
use CGI::Carp qw(warningsToBrowser fatsalsToBrowser);

print header();
print start_html(-title=>"Visitor Counter",-bgcolor=>"#FFD800", -text=>"#800000");
print h1("Welcome to Web Programming lab");
print h3("10CSL78");
print p("Experiment 6b : To display the count of visitors on a html page");

open(FILE,'<count.txt');
$count=<FILE>;
close(FILE);

print hr();
$count++;
open(FILE,'>count.txt');
print FILE "$count";
print i("This page has been viewed",b($count)," times");
close(FILE);
print end_html();
```

SAMPLE OUTPUT



EXPERIMENT No. 7

AIM: To display a digital clock using Perl programming

1. time.pl

```
#!/usr/bin/perl -w

use CGI qw(:standard);

use CGI::Carp qw(warningsToBrowser fatsalsToBrowser);

print "Refresh: 1\n";

print header();

print start_html(-title=>"Digital Clock",-bgcolor=>"indigo", -text=>"yellow");

($s,$m,$h)=localtime(time);

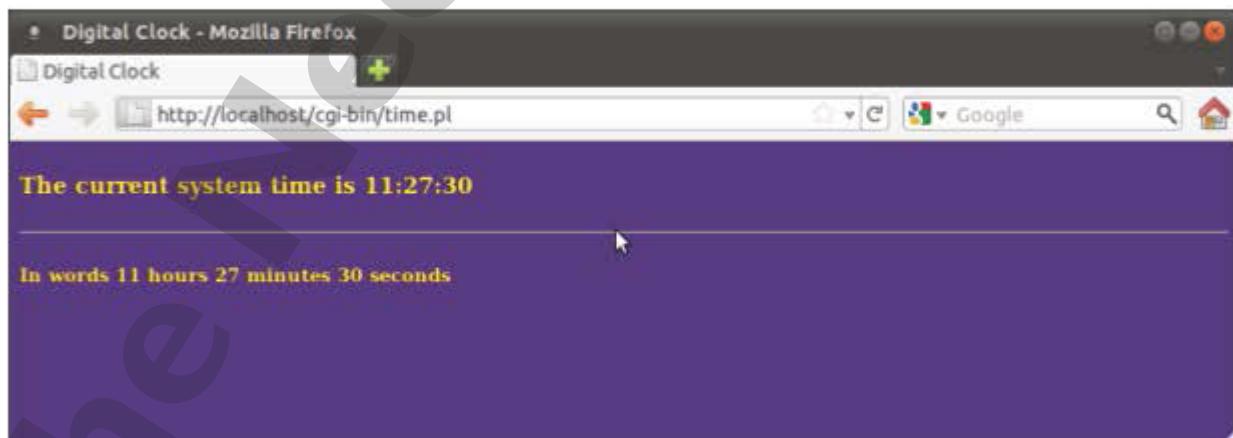
print h4("The current system time is $h:$m:$s");

print hr();

print h5("In words $h hours $m minutes $s seconds");

print end_html;
```

SAMPLE OUTPUT



EXPERIMENT No.8

AIM: To display a name and age of user information by creating table using Perl programming

1.Create userDB database

- Go to terminal, start mysql service
`service mysqld start`
- Execute the command:
`mysql`
- You will get the mysql> prompt
- Create userDB database
`mysql> create database userDB;`
- Select database userDB
`mysql> use userDB;`
- Create user table with three attributes (fname, lname and age)
`mysql> create table user (fname varchar(50), lname varchar(50), age int);`
- To view the database
`mysql> show databases;`
- To check whether values are inserted in the table mysql >`select * from user;`

2. userForm.html

```
<html>
<head>
    <title> User Details Form </title>
</head>
<body bgcolor = "#CCFFCC" text="green">
    <h3> User Details </h3>
    <form action="http://localhost/cgi-bin/display.pl">
        <table>
            <tr>
                <td>First Name </td>
                <td><input type="text" name="fname" /> </td>
            </tr>
            <tr>
                <td>Last Name </td>
                <td><input type="text" name="lname" /> </td>
            </tr>
            <tr>
                <td>Age </td>
                <td><input type="text" name="age" /> </td>
            </tr>
        <tr>
```

```
<td align="center" colspan="2"><input type="submit" value="SUBMIT"></td>
</tr>
</form>
</body>
</html>
```

3.display.pl

```
#!/usr/bin/perl -w

use CGI qw(:standard);
use CGI::Carp qw(warningsToBrowser fatsalsToBrowser);

print header();
print start_html(-title=>"Display User Details", -bgcolor=>"#FFDFFF",      -text=>"800080");

use DBI;
$dbh=DBI->connect("DBI:mysql:userDB","root","");
$fname=param("fname");
$lname=param("lname");
$age=param("age");
$qh=$dbh->prepare("insert into user values('$fname', '$lname', $age)");
$qh->execute();
$qh=$dbh->prepare("Select * from user");
$qh->execute();
print h3("User Details");
print "<a href='$ENV{HTTP_REFERER}>Enter user details</a>";
print "<table width='500px' border='1'
style='border-collapse:collapse'>";
print "<tr><th></th><th>FIRST NAME</th><th>LAST NAME</th>";
print "<th>AGE</th></tr>";
$cnt = 0;
while ( ($fname,$lname,$age)=$qh->fetchrow())
{
    $cnt++;
    print "<tr><td>$cnt<td>$fname</td><td>$lname </td> <td>$age</td></tr>";
}
print "</table>";
$qh->finish();
$dbh->disconnect();
print end_html;
```

SAMPLE OUTPUT

User Details Form - Mozilla Firefox

User Details Form http://localhost/userForm.html

User Details

First Name

Last Name

Age

Display User Details - Mozilla Firefox

Display User Details http://localhost/cgi-bin/display.pl?fname=Swetha&lname=Bhaskar&age=20

User Details

Enter user details

	FIRST NAME	LAST NAME	AGE
1	Arun	Kumar	20
2	Swetha	Bhaskar	19

EXPERIMENT No.9

AIM: To display the date and time of last visited page using cookie

1. visit.php

```
<html>
    <head>
        <title>Last Visit using Cookies</title>
    </head>
    <body bgcolor="#cCCFFCC" text="#003300">

        <h1> Web Programming Lab</h1>
        <p> Welcome to Web Programming Lab </p>
        <hr />

        <p style="color:blue; font-style: italic">
            <?php
                date_default_timezone_set('Asia/Calcutta');

                //Calculate 60 days in the future
                //seconds * minutes * hours * days + current time

                // set expiry date to two months from now
                $inTwoMonths = 60 * 60 * 24 * 60 + time();
                setcookie('lastVisit', date("G:i - m/d/y"), $inTwoMonths);
                if(isset($_COOKIE['lastVisit']))
                {
                    $visit = $_COOKIE['lastVisit'];
                    echo "Last Visited on : ".$visit;
                }
                else
                    echo "You've got some old cookies!";
            ?>
        </p>
    </body>
</html>
```

SAMPLE OUTPUT



EXPERIMENT No.10

AIM: To display the session count using PHP programming

1. views.php

```
<html>
  <head>
    <title>Page Views </title>
  </head>
<body bgcolor="#cCCFFCC" text="#003300">

  <h1> Web Programming Lab</h1>
  <p> Welcome to Web Programming Lab </p>
  <hr />

  <p style="color:blue; font-style: italic">
  <?php
  session_start();
  session_register("count");

  if (!isset($_SESSION[count]))
  {
    $_SESSION["count"] = 0;
    echo "Counter initialized... <br />";
  }
  else { $_SESSION["count"]++; }

  echo "Number of Page Views : <b>$_SESSION[count]</b></p>";
  ?>
  <p>Reload this page to increment</p>
  </body>
</html>
```

SAMPLE OUTPUT



EXPERIMENT No.11

AIM: To display the student details using PHP programming by creating database

1. Create contactDB database in mySQL

- Go to terminal, start mysql service
service mysqld start
- Execute the command:
mysql
- You will get the mysql> prompt
- Create contactDB database
mysql> create database contactDB;
- Select database contactDB
mysql> use contactDB;
- Create contact table with 4 attributes (name, addr1, addr2, email)
mysql> create table contact(name varchar(100), addr1 varchar(100), addr2 varchar (100), email varchar(100));
- To view the database
mysql> show databases;
- To check whether values are inserted in the table mysql >**select * from contact;**

2. menu.html

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <title> Menu </title>
</head>
<body bgcolor = "#CCFFFF" text = "#660099">
  <h1> Menu </h1>

  <ul>
    <li><a href="/contact.php"> Add Contact </a> </li>
    <li><a href="/search.php"> Search for Contacts </a> </li>
  </ul>

</body>
</html>
```

3. contact.php

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```

</tr>
<tr>
<td> Email </td>
<td> <input type="text" name="email" value="" /><br>
</tr>
<tr>
<td colspan="2" align = "center">
    <input type="submit" value="SUBMIT" />
    <input type="hidden" name="submit" value="yes" />
</td>
</tr>
</table>
</form>
<p style="font-style: italic; color:blue"> * Required Fields </p>

</body>
</html>

```

4. search.php

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

```

```

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <title> Search for contact</title>
</head>
<body bgcolor = "#CCFFFF" text = "#660099">
    <h1> Search for Contacts </h1>
    <p> Go to <a href="menu.html"> Menu </a></p>

```

```

<?php
    $self = $_SERVER['PHP_SELF'];
?>

```

```

<form action="<?=$self?>" method="GET">
    Enter Name : <input type="text" name="name" />
    <input type="hidden" name="search" />

```

```

    <input type="submit" value = "Search" />
</form>

```

```

<?php

```

```

if(isset($_GET['search'])) {

```

```

</tr>
<tr>
<td> Email </td>
<td> <input type="text" name="email" value="" /><br>
</tr>
<tr>
<td colspan="2" align = "center">
    <input type="submit" value="SUBMIT" />
    <input type="hidden" name="submit" value="yes" />
</td>
</tr>
</table>
</form>
<p style="font-style: italic; color:blue"> * Required Fields </p>

</body>
</html>

```

4. search.php

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

```

```

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <title> Search for contact</title>
</head>
<body bgcolor = "#CCFFFF" text = "#660099">
    <h1> Search for Contacts </h1>
    <p> Go to <a href="menu.html"> Menu </a></p>

```

```

<?php
    $self = $_SERVER['PHP_SELF'];
?>

```

```

<form action="<?=$self?>" method="GET">
    Enter Name : <input type="text" name="name" />
    <input type="hidden" name="search" />

```

```

    <input type="submit" value = "Search" />
</form>

```

```

<?php

```

```

if(isset($_GET['search'])) {

```

```
$dbh= mysql_connect("localhost", "root", "")or die(mysql_error());
mysql_select_db('contactDB') or die(mysql_error());

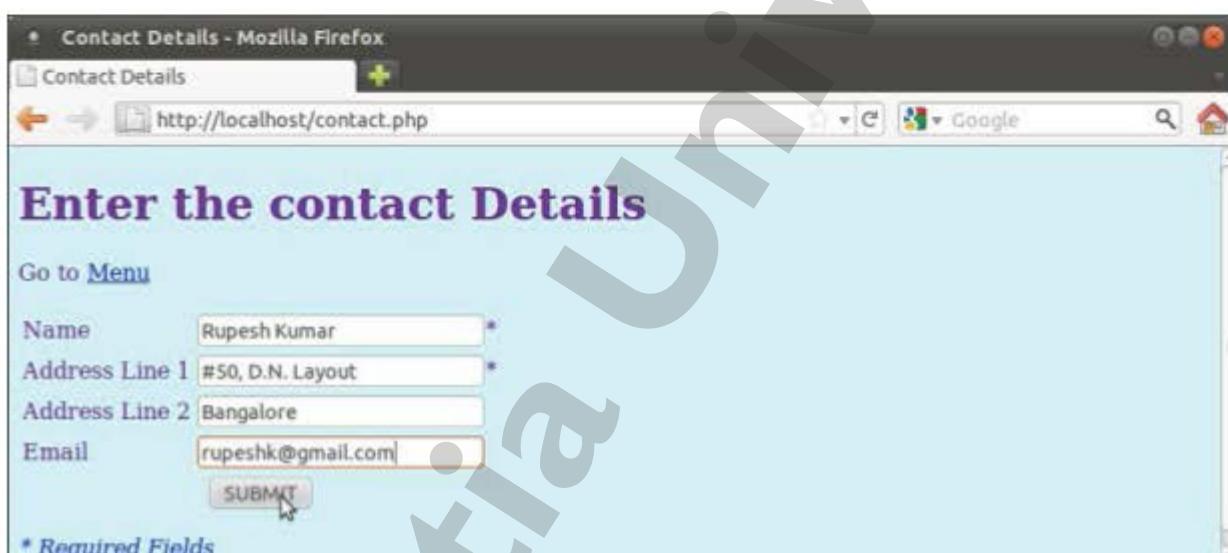
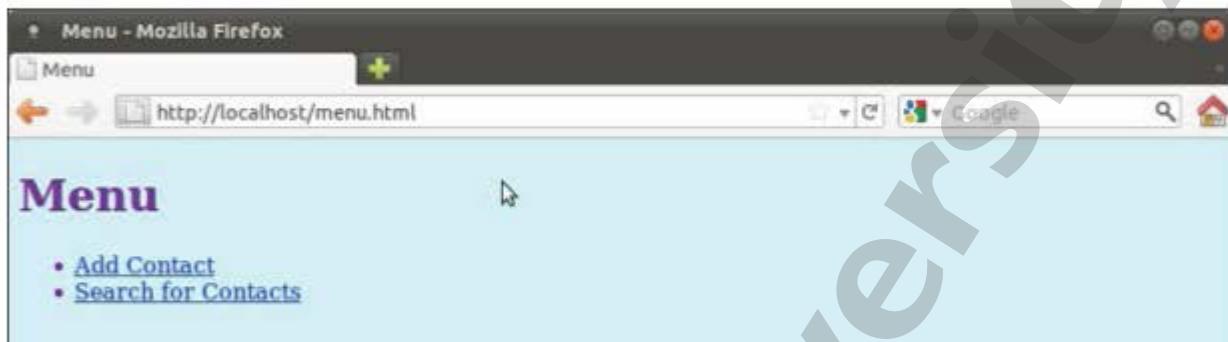
$nme=$_GET["name"];
echo "<p>Searching for $nme...</p>";
$query=mysql_query("SELECT * FROM contact WHERE name like '%$nme%'");
if(mysql_num_rows($query) > 0) {
?>
<table border="1" style="border-collapse:collapse; color:#404040">
<tr>
<th>Name</th>
<th>Address Line 1</th>
<th>Address Line 2</th>
<th>E-mail</th>
</tr>
<?php
while ($row=mysql_fetch_array($query))
{
    echo "<tr>
<td>$row[0]</td>
<td>$row[1]</td>";
} else echo
"<td>$row[2]</td>
<td>$row[3]</td>
</tr>";
}
echo "<p><b> No matches found... </b></p>";

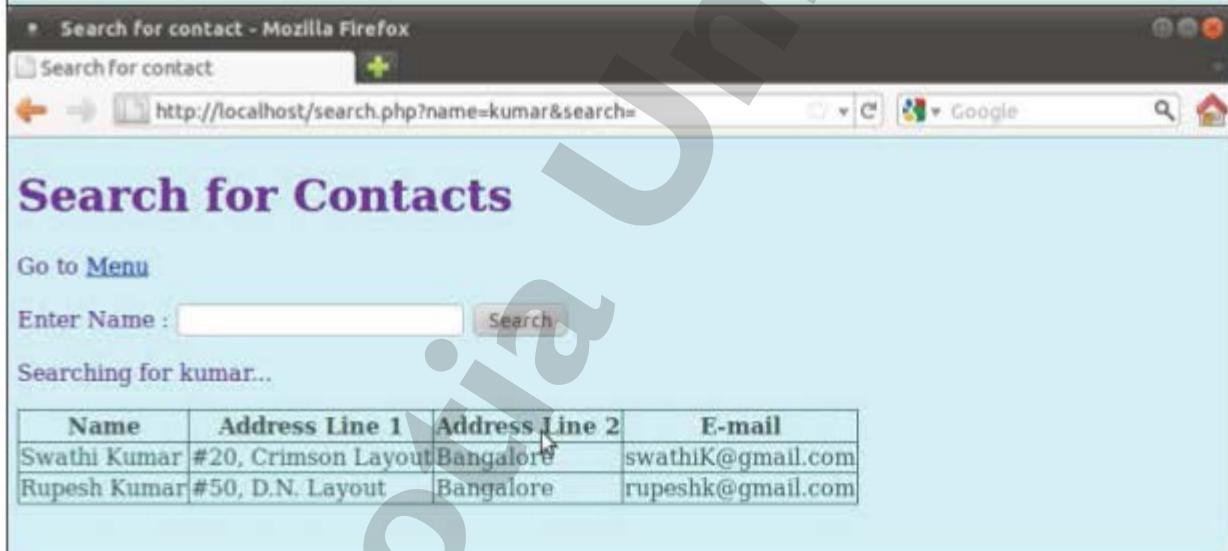
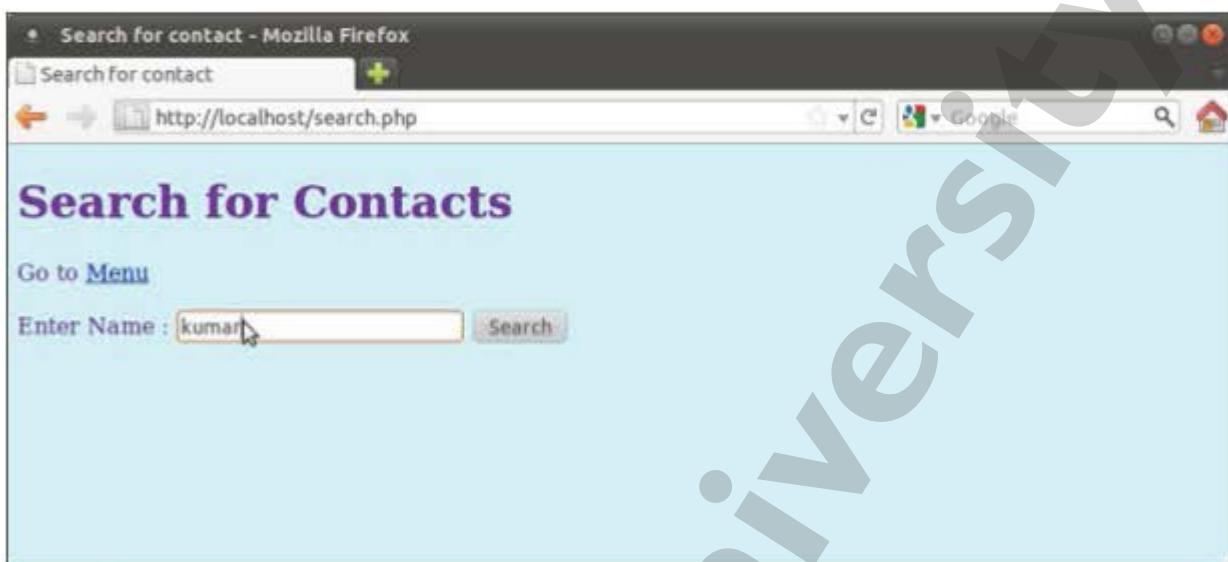
mysql_free_result($row);
mysql_close($dbh);

?>
</table>

</body>
</html>
```

SAMPLE OUTPUT





EXPERIMENT No. 12

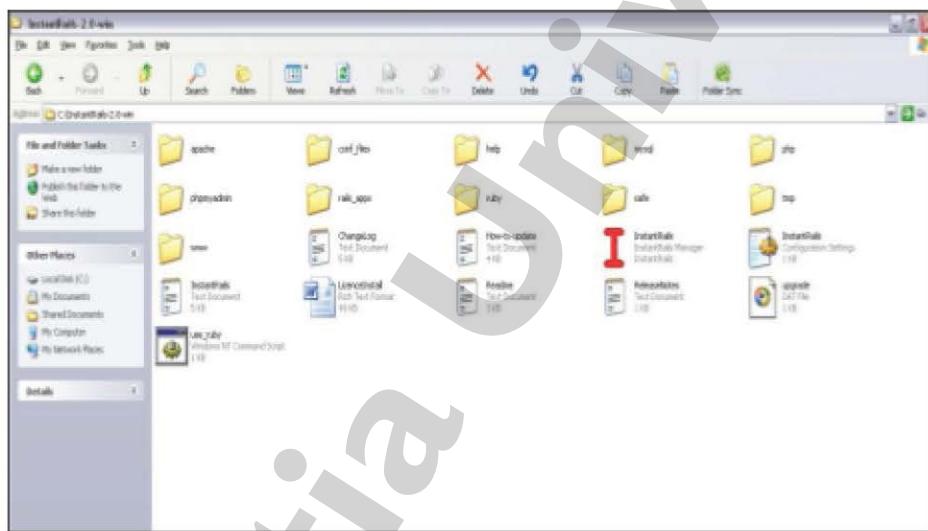
AIM: To display the book information using Rails

Software used: xampp server, InstantRails2.0

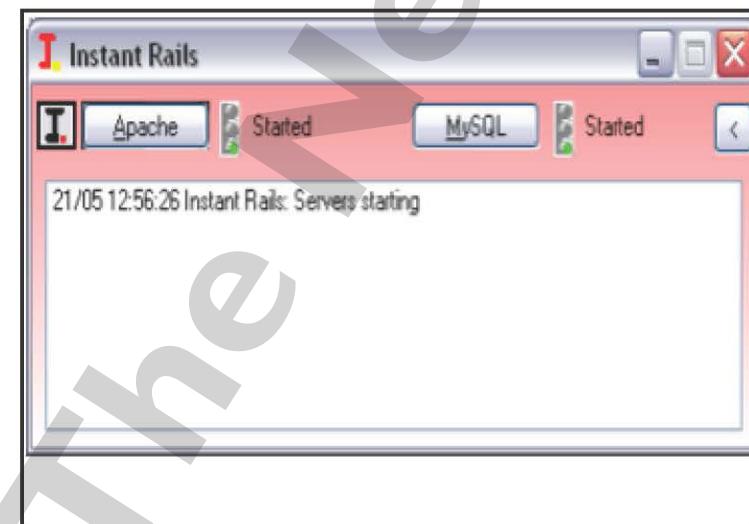
Save instantrails2.0 in c:/

Startxampp

- Goto C:\InstantRails2.0 there will be an icon I, double click on that.



Click on I (left side)- Rails applications ruby console window



```
C:\WINDOWS\system32\cmd.exe
C:\INSTANT-1.0-win>CD C:\InstantRails-2.0-win
C:\InstantRails-2.0-win>PATH C:\InstantRails-2.0-win\ruby\bin;C:\InstantRails-2.0-win\mysql\bin;C:\oracle\app\OracleProduct\10.2.0\server\bin;C:\RailsInstaller\Ruby1.8\bin;C:\Perl\site\bin;C:\Windows\system32;C:\Windows\Win32System32\Wbem;C:\Windows\system32\WindowsPowerShell\v1.0\;C:\Windows\system32\WindowsPowerShell\v1.0\Microsoft.PowerShell\;C:\Windows\Win32\Apache\;C:\INSTANT-1.0-win\PHP
C:\InstantRails-2.0-win>cd rails_apps
C:\InstantRails-2.0-win\rails_apps>dir
Volume in drive C has no label.
Volume Serial Number is D4B9-0C79
Directory of C:\InstantRails-2.0-win\rails_apps
05/21/2012 10:30 AM <DIR> .
05/21/2012 10:30 AM <DIR> ..
05/04/2012 04:12 PM <DIR> ..\metadata
05/04/2012 04:12 PM <DIR> ..\codebook
05/10/2012 02:40 PM <DIR> lab1
05/09/2012 02:39 PM <DIR> lab12
05/07/2012 04:24 PM <DIR> lab14
05/16/2012 12:15 PM <DIR> lab2
05/08/2012 04:17 PM <DIR> sample
05/10/2012 02:04 PM <DIR> sample1
05/21/2012 10:30 AM <DIR> script
05/09/2012 10:30 AM <DIR> test
05/04/2012 04:12 PM <DIR> topo2-6.0
0 Files(s) 0 bytes
13 Dir(s) 13,620,461,568 bytes free
C:\InstantRails-2.0-win\rails_apps>
```

1. Create Database

Type this code at command prompt to login to mysql server as root and get the mysql prompt

```
> mysql -u root
```

```
mysql> create database bookApp_development;
```

```
mysql> create database bookApp_test;
```

```
mysql> create database bookApp_production;
```

```
mysql> use bookApp_development;
```

```
mysql> create table books
```

```
(ID INT NOT NULL AUTO_INCREMENT,
```

```
acc_num int NOT NULL,
```

```
title VARCHAR(150) NOT NULL,
```

```
authors VARCHAR(150) NOT NULL,
```

```
edition INT(2),
```

```
publisher VARCHAR(150),
```

```
PRIMARY KEY(ID)
```

```
);
```

Quit MySQL by typing

```
mysql> quit;
```

2. Generate the ruby script

```
C:\InstantRails-2.0-win\rails_apps> rails -d mysql
```

```
bookApp C:\InstantRails-2.0-win\rails_apps> cd bookApp
```

```
C:\InstantRails-2.0-win\rails_apps\bookApp> ruby script/generate scaffold Book ac
```

```
c_num:int title:string authors:string, edition:int publisher:string
```

Start the application with mongrel

```
C:\InstantRails-2.0-win\rails_apps\bookApp> ruby script/server
```

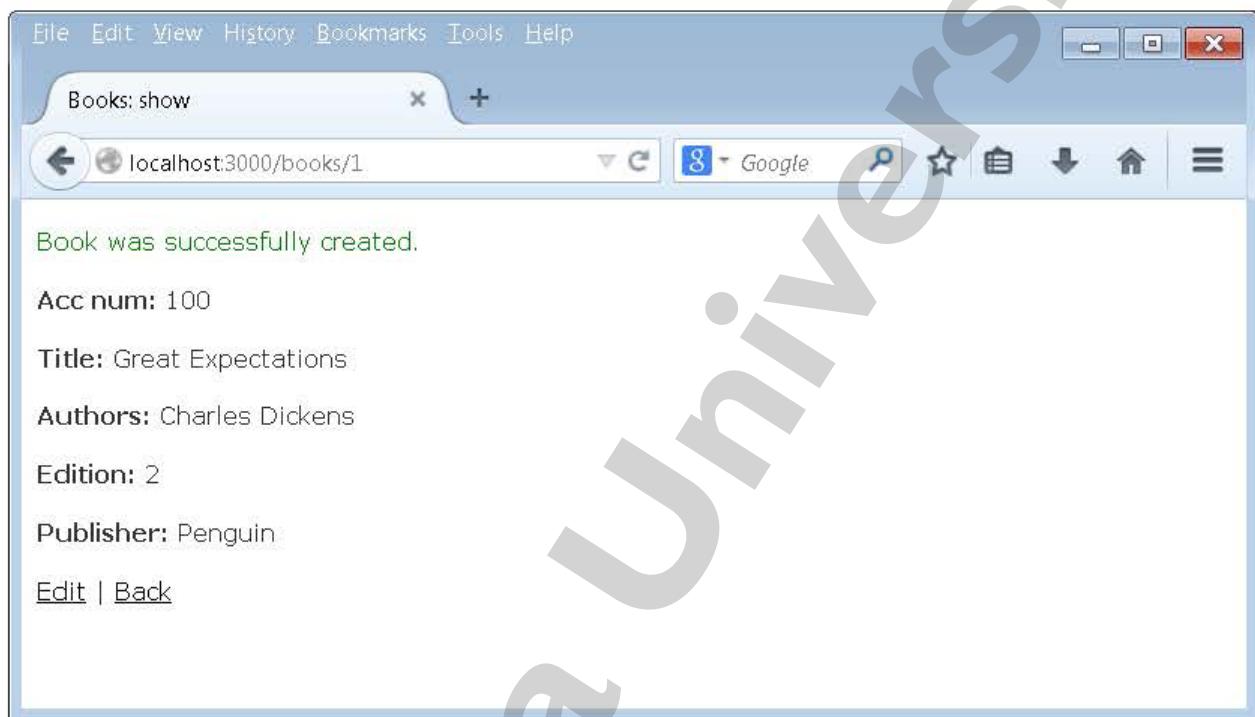
3. Open the application in browser to insert data into table books



Click on the “New book” link to insert data into the table books

A screenshot of a web browser window titled "Books: new". The address bar shows "localhost:3000/books/new". The main content area displays a form titled "New book" with five input fields: "Acc num" (value: 100), "Title" (value: Great Expectations), "Authors" (value: Charles Dickens), "Edition" (value: 2), and "Publisher" (value: Penguin). At the bottom of the form are two buttons: "Create" and "Back".

Click on Create



Click "Back" to see the listing

The screenshot shows a web browser window with the title "Books: index". The address bar displays "localhost:3000/books". The main content area has a heading "Listing books". Below it is a table with the following data:

Acc num	Title	Authors	Edition	Publisher	
100	Great Expectations	Charles Dickens	2	Penguin	Show Edit Destroy

Below the table is a link "[New book](#)".

4. Create Views

Press control-c to stop the mongrel in command prompt and type

C:\InstantRails-2.0-win\rails_apps\bookApp> ruby script/generate controller main

This will create

main_controller.rb in C:\InstantRails-2.0-win\rails_apps\bookApp\app\controllers
main folder in C:\InstantRails-2.0-win\rails_apps\bookApp\app\views

main_controller.rb

```
class MainController < ApplicationController

  def welcome
    @num_books = Book.count
  end

  def result
  end
end
```

```
@bookid = params[:sid]  
@bookz = Book.find(:all, :conditions => "id = #{@bookid}")  
end  
end
```

5. Generate model

At the command prompt type,

```
C:\InstantRails-2.0-win\rails_apps\bookApp> ruby script/generate model book
```

This will create **book.rb** in C:\InstantRails-2.0-win\rails_apps\bookApp\app\models directory.

6. Write rhtml pages to search for books.

Save the following two programs **in \bookApp\app\views\main folder.**

result.rhtml

```
<html>  
<head>  
<title> Welcome template for books </title>  
</head>  
<body bgcolor="#CCFFCC" text="#003800">  
<h1>Welcome</h1>  
<ul>  
<li><a href="../books/new"> Add new book </a></li>  
<li><a href="../books">View Book Listing</a></li>  
</ul>  
<h3> Search for books</h3>  
<p> Total number of books : <%=@num_books %> </p>
```

```
<form action = "result" >  
  
Enter title of book : <input type="text" name="sid" />  
  
<input type=submit value="Search" />  
  
</form>  
  
</body>  
  
</html>
```

result.rhtml

```
<html>  
  
<head>  
  
<title> Welcome template for books </title>  
  
<style>  
  
table {  
  
border-collapse: collapse;  
  
}  
  
th {  
  
background-color: #003300;  
  
color: #CCCCCC;  
  
}  
  
th, td { padding: 5px; }  
  
</style>  
  
</head>  
  
<body bgcolor="#CCFFCC" text="#003800">  
  
<h1> Search Results </h1>  
  
<p> Search Results for book title containing <b><%= @booktitle %> </b></p>
```

```
<a href="welcome"> Back </a>
```

```
<table border="1">
```

```
<tr>
```

```
<th>Accession Number</th>
```

```
<th>Title</th>
```

```
<th>Authors</th>
```

```
<th>Edition No. </th>
```

```
<th> Publisher</th>
```

```
</tr>
```

```
<% @bookz.each do |bk|
```

```
  @acc_num= bk.acc_num
```

```
  @title = bk.title
```

```
  @author = bk.authors
```

```
  @edition = bk.edition
```

```
  @publisher = bk.publisher %>
```

```
<tr>
```

```
  <td> <%=@acc_num %></td>
```

```
  <td><%=@title %></td>
```

```
  <td><%=@author %></td>
```

```
  <td> <%=@edition %></td>
```

```
  <td> <%=@publisher %></td>
```

```
</tr>
```

```
<% end %>
```

```
</table>
```

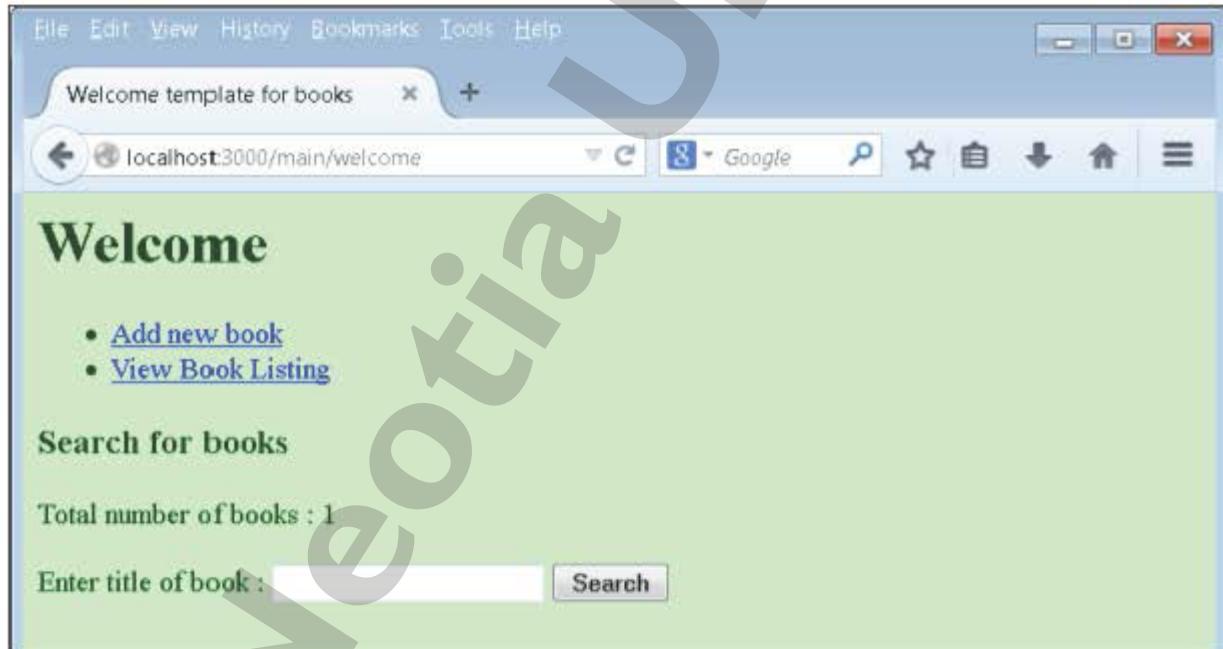
```
</body>  
</html>
```

Start the application with mongrel

```
C:\InstantRails-2.0-win\rails_apps\bookApp> ruby script/server
```

7. Open the application in browser

Go to browser and execute, <http://localhost:3000/main/welcome>





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