1. Create an XHTML page to demonstrate the usage of a. Text Formatting tags, b. Links c. Images d. Tables

1.html

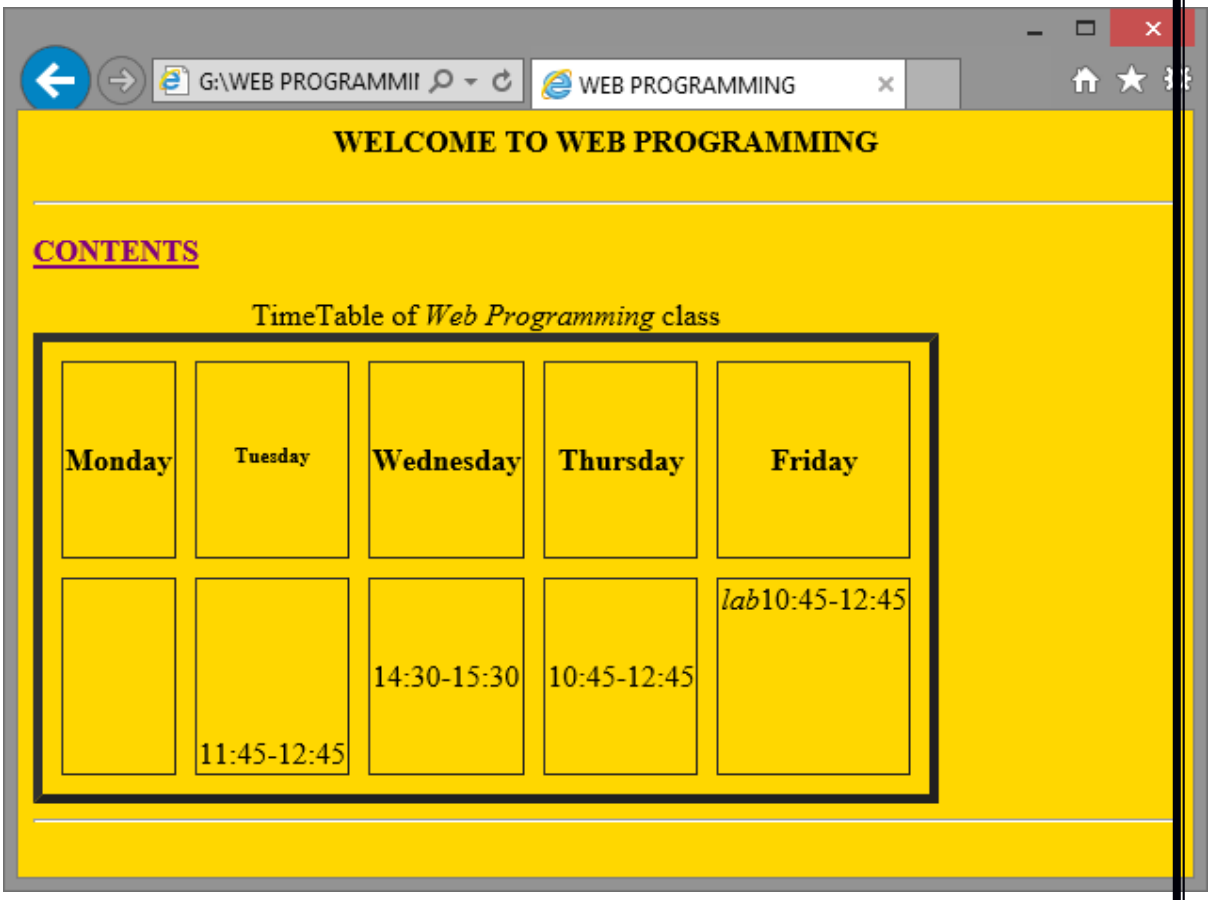
```
<html>
<head>
<html>
<title>WEB PROGRAMMING</title>
</head>
<body bgcolor="gold">
<h4><center>WELCOME TO WEB PROGRAMMING</center></h4><hr>
<p><b><u><a href="contents.html">CONTENTS</a></u></b></p>
<table border="5" cellspacing="10" cellspadding="15" height="500">
<caption><blink>TimeTable of <i>Web Programming</i> class
</blink></caption>
<tr>
<th>Monday</th>
<th><sup>Tuesday</sup></th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
<tr>
<td></td>
<td valign="bottom">11:45-12:45</td>
<td>14:30-15:30</td>
<td>10:45-12:45</td>
<td valign="top"><em>lab</em>10:45-12:45</td>
</tr>
</table>
<hr>
</body>
```

```
</html>
```

Contents.html

```
<html>
<head>
<title>Contents</title>
</head>
<body bgcolor="yellow">
<ol type="A">
<li>Fundamentals</li>
<li>Introduction to XHTML</li>
<li>Cascading Style <small>Sheets</small></li>
<li>The Basics of <sub>Javascript</sub></li>
<li>Javascript and <big>XHTML</big>Documents</li>
<li>Introduction to XML</li>
<li><strike>Introduction to Rails</strike></li>
</ol>
<br>
<img src=”web1.jpg" alt="sample Picture"/>
</br>
<a href="1.html">HOME</a>
</body>
</html>
```

OUTPUT:


G:\WEB PROGRAMMII
WEB PROGRAMMING
WELCOME TO WEB PROGRAMMING
CONTENTS
TimeTable of Web Programming class
Monday
Tuesday
Wednesday
Thursday
Friday
11:45-12:45
14:30-15:30
10:45-12:45
lab10:45-12:45


G:\WEB PROGRAMMII
Contents
A. Fundamentals
B. Introduction to XHTML
C. Cascading Style Sheets
D. The Basics of Javascript
E. Javascript and XHTMLDocuments
F. Introduction to XML
G. Introduction to Rails
http://www
HOME

2. Develop and demonstrate the usage of inline and external style sheet using CSS

2.html

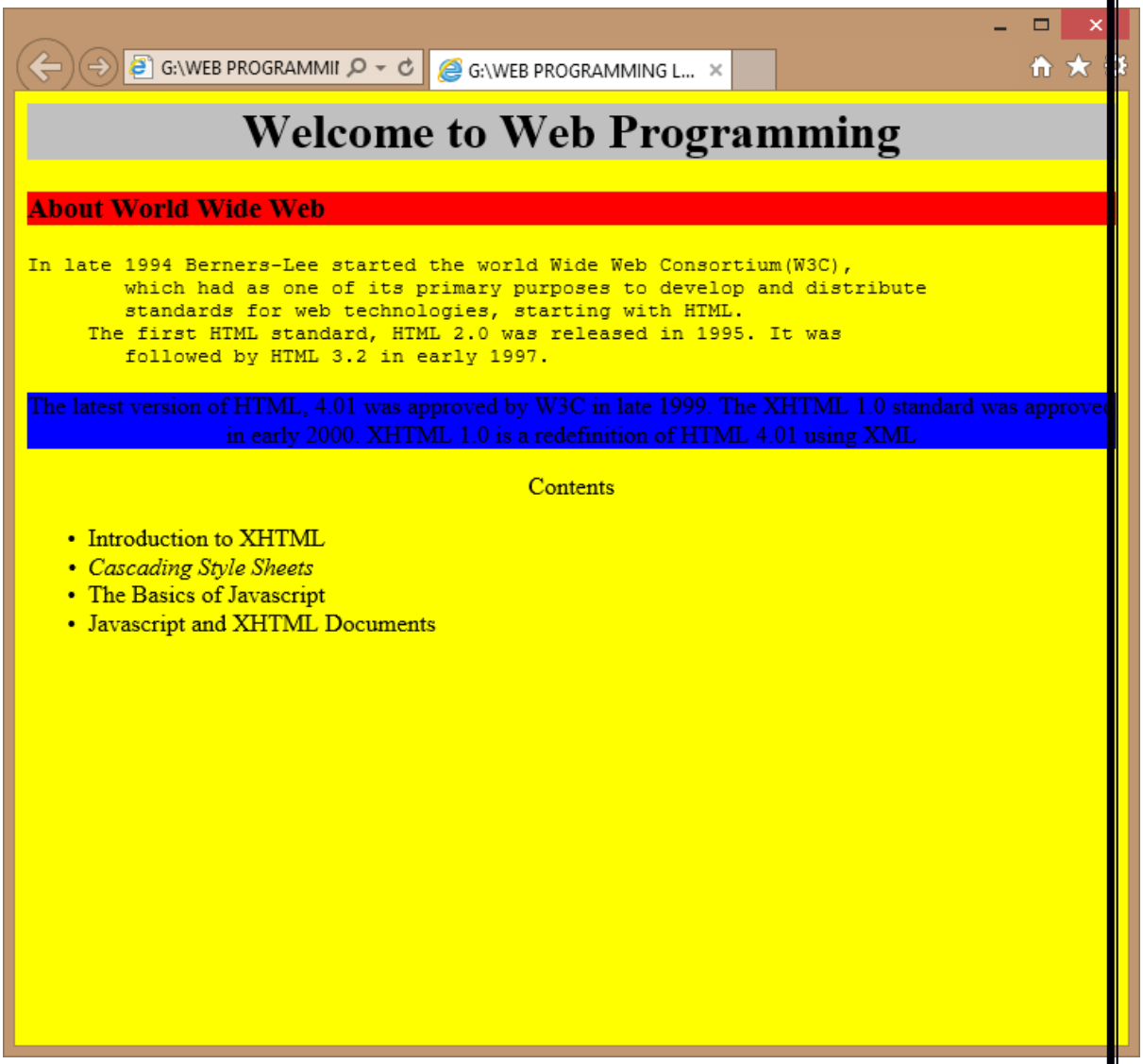
```
<html>
<head>
<link rel="stylesheet" type="text/css" href="e.css"/>
<style type="text/css">
p{text-align:center;}
ul{list=style_type:circle;}
#para1{font_style:italic;}
</style>
</head>
<body>
<h1>Welcome to Web Programming</h1>
<h3>About World Wide Web</h3>
<p id="para1">
<pre>In late 1994 Berners-Lee started the world Wide Web Consortium(W3C), which had as one of its primary purposes to develop and distribute standards for web technologies, starting with HTML. The first HTML standard, HTML 2.0 was released in 1995. It was followed by HTML 3.2 in early 1997.</pre>
</p>
<p class="add">The latest version of HTML, 4.01 was approved by W3C in late 1999. The XHTML 1.0 standard was approved in early 2000. XHTML 1.0 is a redefinition of HTML 4.01 using XML</p>
<p>Contents</p>
<ul>
<li>Introduction to XHTML</li>
<li style="font-style:italic;">Cascading Style Sheets</li>
<li>The Basics of Javascript</li>

<li>Javascript and XHTML Documents</li>
```

```
</ul>

</body>

</html>
```

e.css

```
body{background:yellow;}

h1{border:thick;background-color:silver;text-align:center;}

h3{background-color:red;}

p.add{background:blue; font-family:"Times New Roman";
text-decoraion:underline;}
```

OUTPUT:



3. Develop and demonstrate a XHTML file that includes JavaScript script for the following problems:

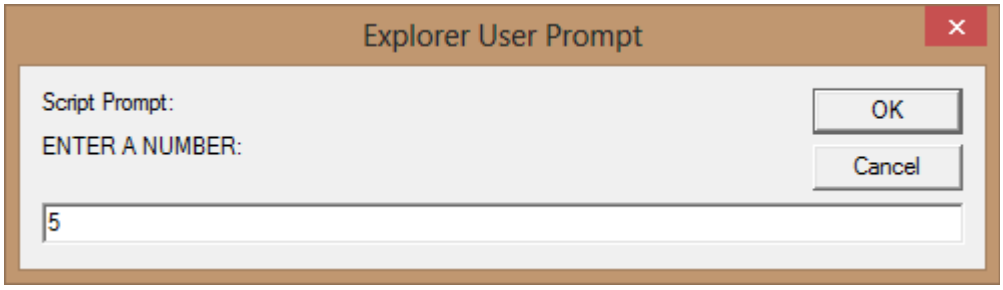
a) Input: A number n obtained using prompt Output: The first n Fibonacci numbers

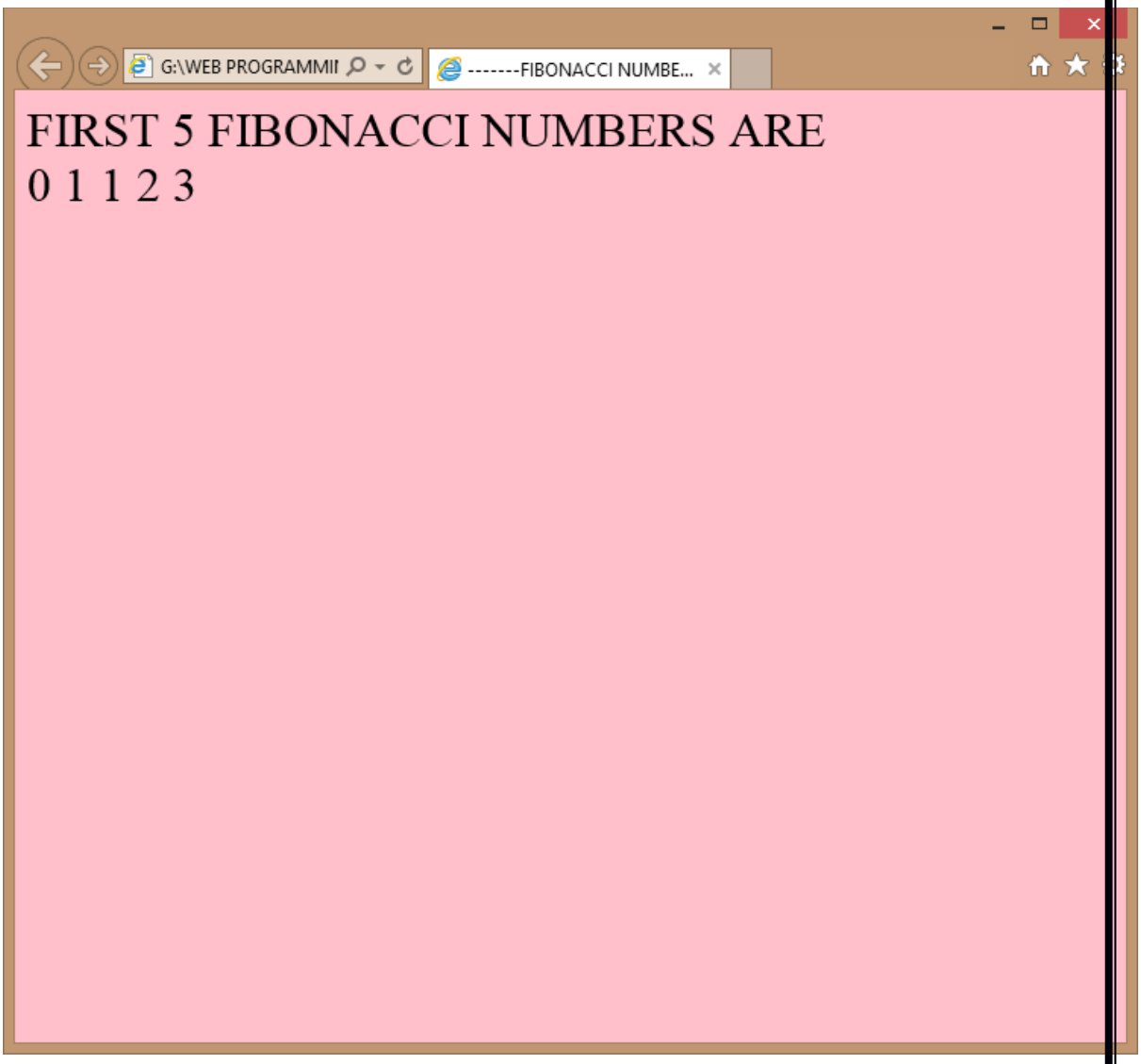
3a.html

```
<html>
<head>
<title>-------FIBONACCI NUMBERS--------</title>
</head>
<body bgcolor="pink">
<font size="6">
<script value="text/javascript">
var fib1=0,fib2=1,fib=0;
var n=prompt("ENTER A NUMBER:"," ");
if(n<1)
document.write("INVALID INPUT");
else
{
document.write("FIRST"+" "+n+" "+"FIBONACCI NUMBERS ARE<BR>");
if(n==1)
document.write(fib1);
else if(n==2)
document.write(fib1+" "+fib2);
else
{
document.write(fib1+" "+fib2);
for(i=2;i<n;i++)
{
fib=fib1+fib2;

document.write(" "+fib);
fib1=fib2;
fib2=fib;
```

```
}
}
}
</script>
</font>
</body>
</html>
```

OUTPUT:



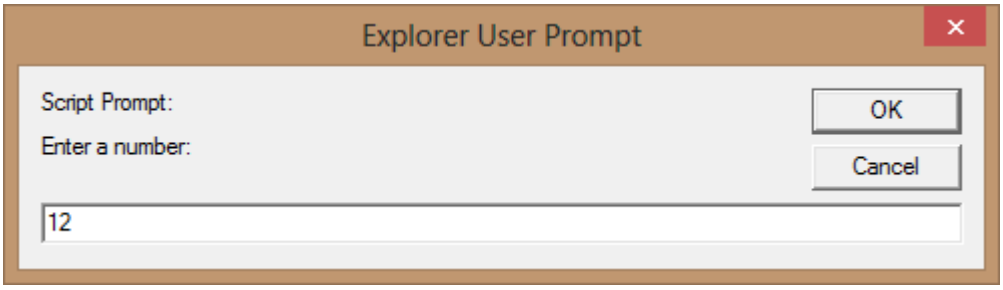


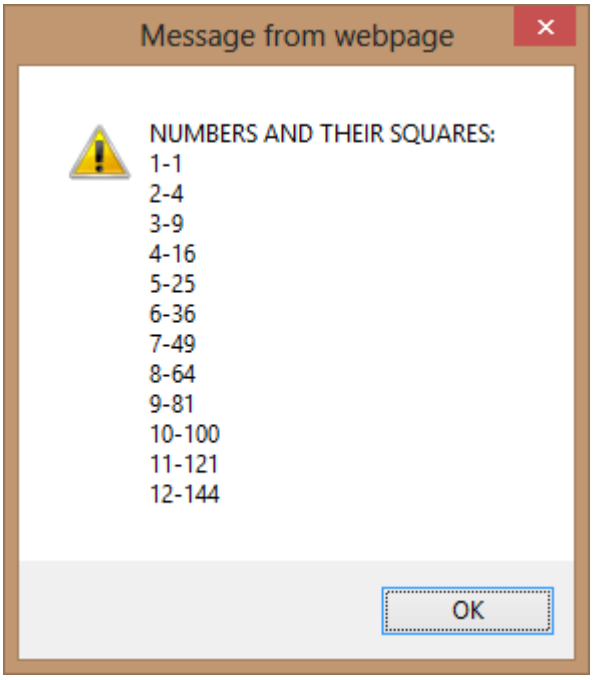
b) Input: A number n obtained using prompt Output: A table of numbers from 1 to n and their squares using alert

3b.html

```
<html>
<body bgcolor="green">
<font size="6">
<script TYPE="text/javascript">
var n=prompt("Enter a number:","dx");
if(n<1)
mg="INVALID INPUT";
else
{
mg="NUMBERS AND THEIR SQUARES:\n"
for(i=1;i<=n;i++)
mg=mg+i+"-"+i*i+"\n";
}
alert(mg);
</script>
</font>
</body>
</html>
```

OUTPUT:



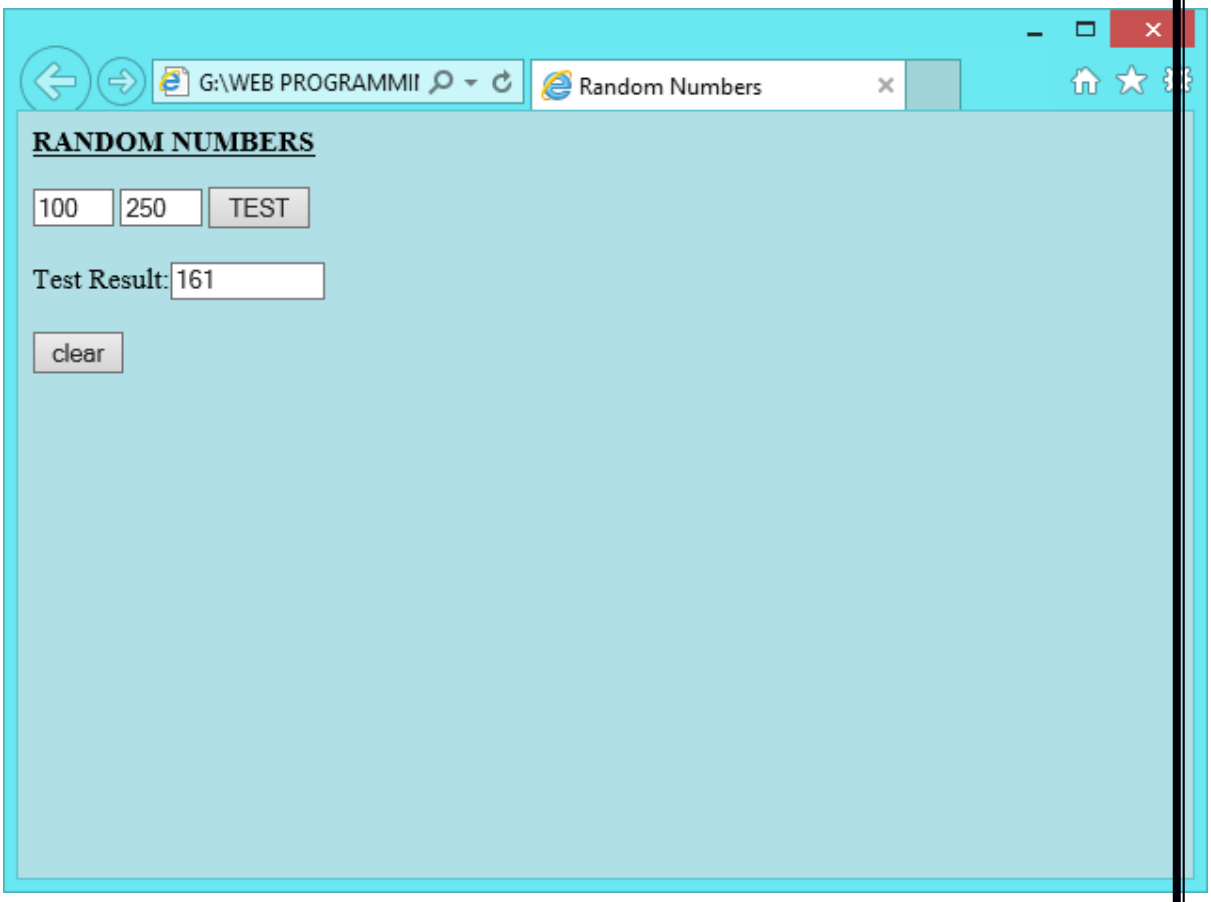


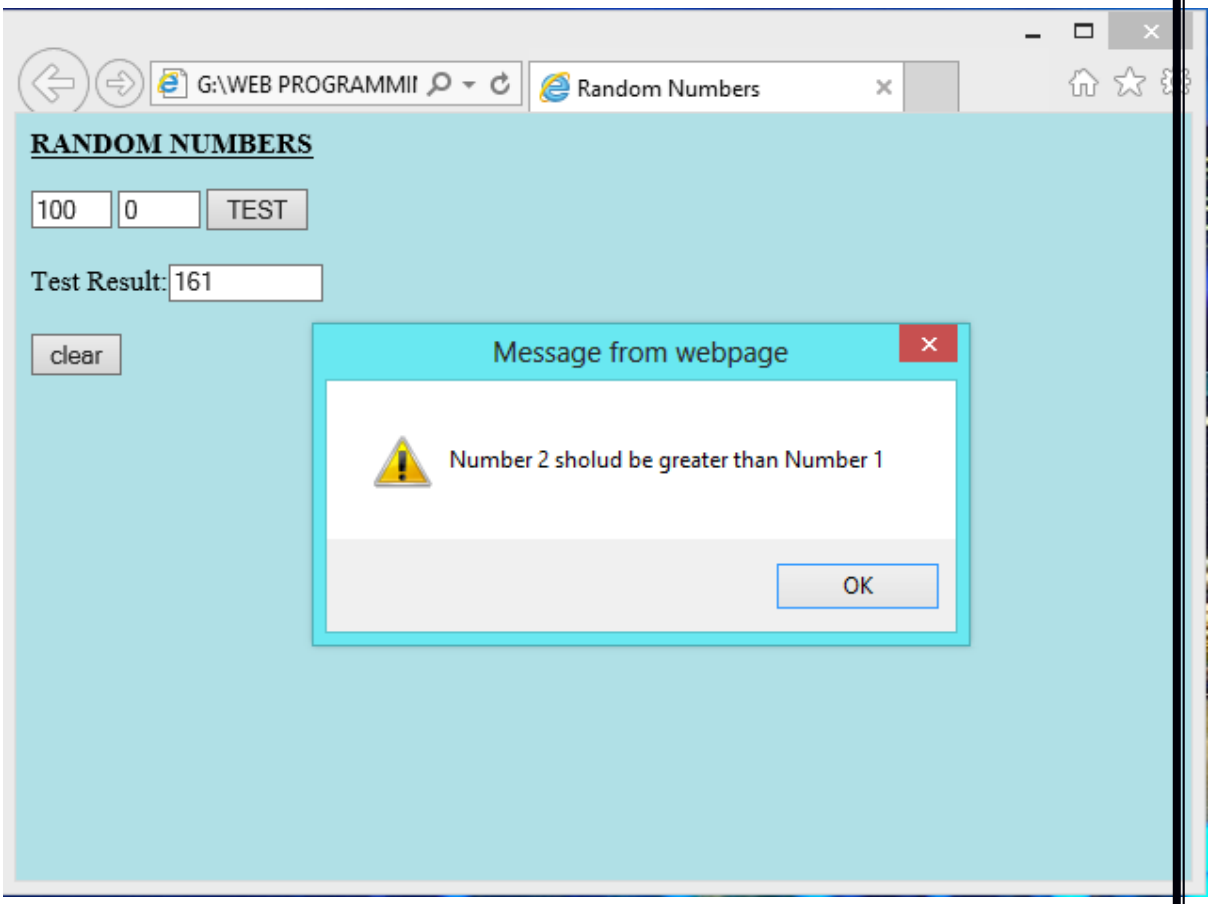
4. Develop and demonstrate using JavaScript, a XHTML document that displays random numbers (integers).

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML1.1//EN
"http://www.w3.org/TR/xhtml11/DTD/xhtml/11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<html>
<head>
<title>Random Numbers </title>
<script type="text/javascript">
 function randomnumber(num1,num2)
{
  num1=parseInt(num1);
  num2=parseInt(num2);
   if(num1>=num2)
{
alert("Number 2 sholud be greater than Number 1");
 }
 else
{
 var generator=Math.random()*(num2-num1);
 generator=Math.round(num1+generator);
 document.test.result.value=generator;
 }
</script>
</head>
<body bgcolor="powderblue">
<form name="test">
<p><b><u>RANDOM NUMBERS </u></b></p>

<input name=one type=text size=3/>
<input name=two type=text size=3/>
<input type=button
value="TEST"onclick="randomnumber(one.value,two.value);"> <br/><br/>
```

```
Test Result:<input name=result readonly type=text size=10/> <br/><br/>
<input type="reset" value="clear"/>
</form>
</body>
</html>
```

OUTPUT:


G:\WEB PROGRAMMII
Random Numbers
RANDOM NUMBERS
100
250
TEST
Test Result:
161
clear


G:\WEB PROGRAMMII
Random Numbers
RANDOM NUMBERS
100
0
TEST
Test Result:
161
clear
Message from webpage
Number 2 sholud be greater than Number 1
OK

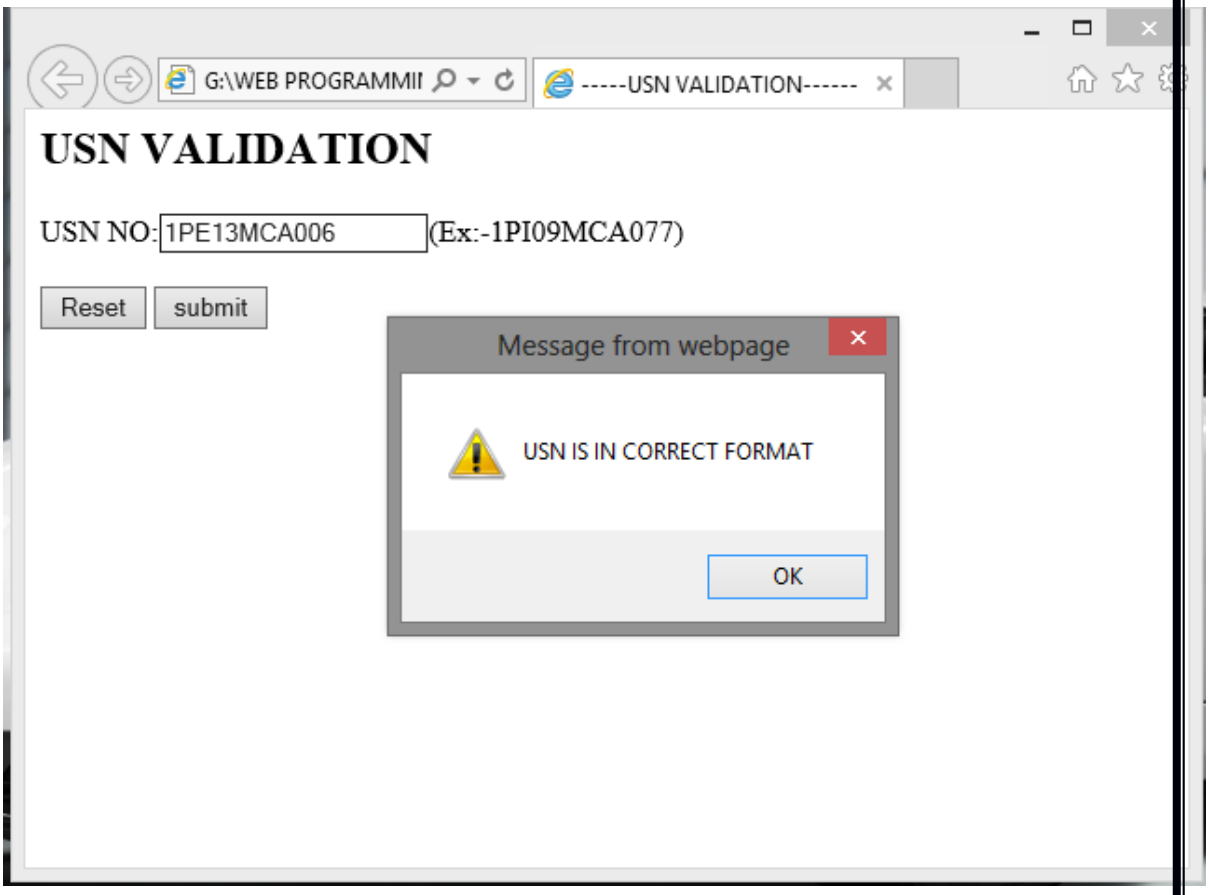
5. a) Develop and demonstrate, using JavaScript script, a XHTML document that collects the USN (the valid format is: A digit from 1 to 4 followed by two upper-case characters followed by two digits followed by two upper-case characters followed by three digits; no embedded spaces allowed) of the user. 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.

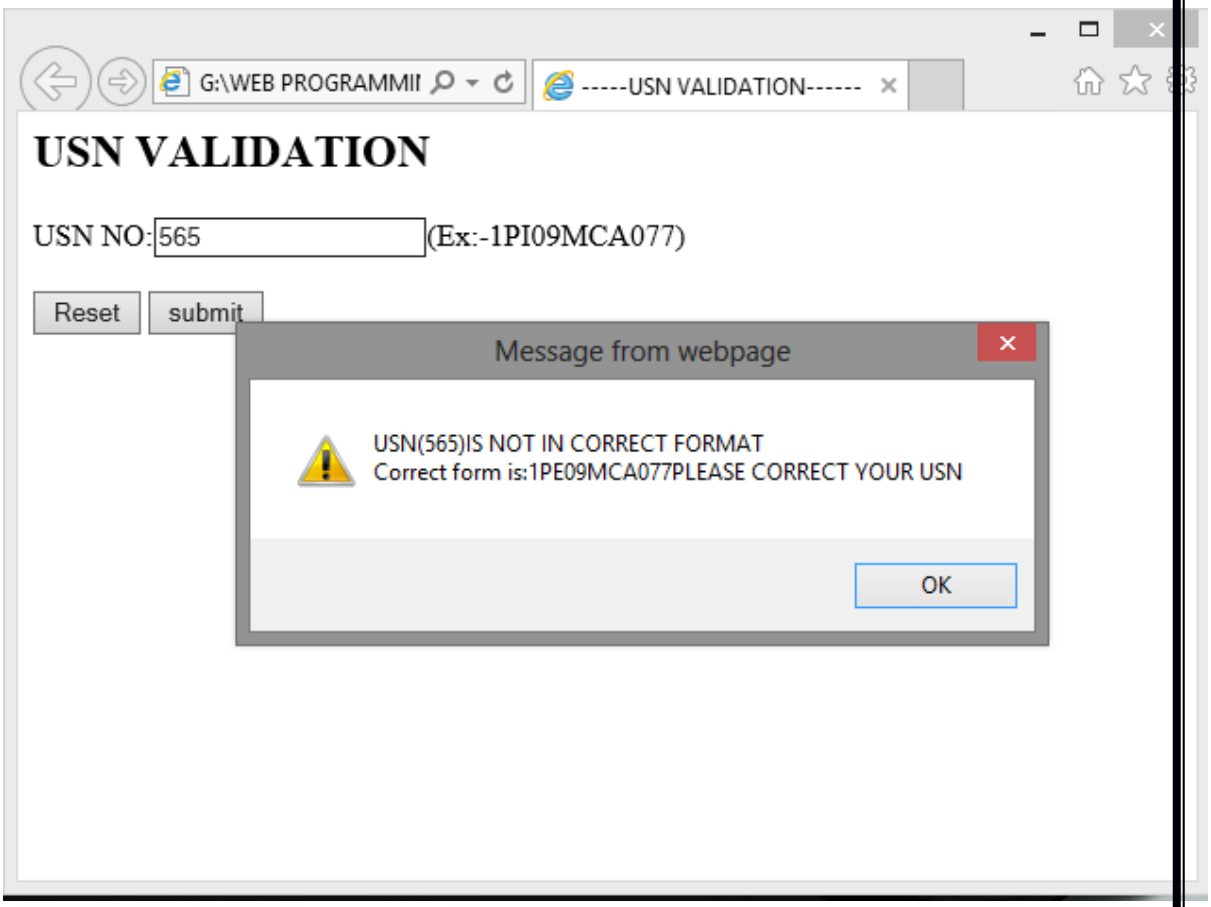
5a.html

```
<html>
<head>
<title>-----USN VALIDATION------</title>
<script type="text/javascript">
function chkUsn()
{
var myUsn=document.getElementById("USN");
var pos=myUsn.value.search(/^[1-4][A-Z][A-Z]\d{2}[A-Z][A-Z][A-Z]\d{3}$/);
if(pos!=0)
{
alert("USN("+myUsn.value+")IS NOT IN CORRECT FORMAT\n"+"Correct form is:"+"1PE09MCA077"+"PLEASE CORRECT YOUR USN");
return false;
myUsn.focus();
myUsn.select();
}
else
{
alert("USN IS IN CORRECT FORMAT");
}

}
</script>
```

```
</head>
<body bgcolor="Blue">
<h2>USN VALIDATION</h2>
<form action=" ">
<p>
USN NO:<input type="text" id="USN"/>(Ex:-1PI09MCA077)<br/><br/>
<input type="reset" id="reset"
Onclick="clear.document.getElementById("USN")"/>
<input type="submit" name="submit" value="submit"/>
</p>
</form>
<script type="text/javascript">
document.getElementById("USN").onchange=chkUsn;
</script>
</body>
</html>
```

OUTPUT:


G:\WEB PROGRAMMI
-----USN VALIDATION------
USN VALIDATION
USN NO:1PE13MCA006
(Ex:-1PI09MCA077)
Reset
submit
Message from webpage
USN IS IN CORRECT FORMAT
OK


G:\WEB PROGRAMMII
-----USN VALIDATION------
USN VALIDATION
USN NO:565
(Ex:-1PI09MCA077)
Reset
submit
Message from webpage
USN(565)IS NOT IN CORRECT FORMAT
Correct form is:1PE09MCA077PLEASE CORRECT YOUR USN
OK

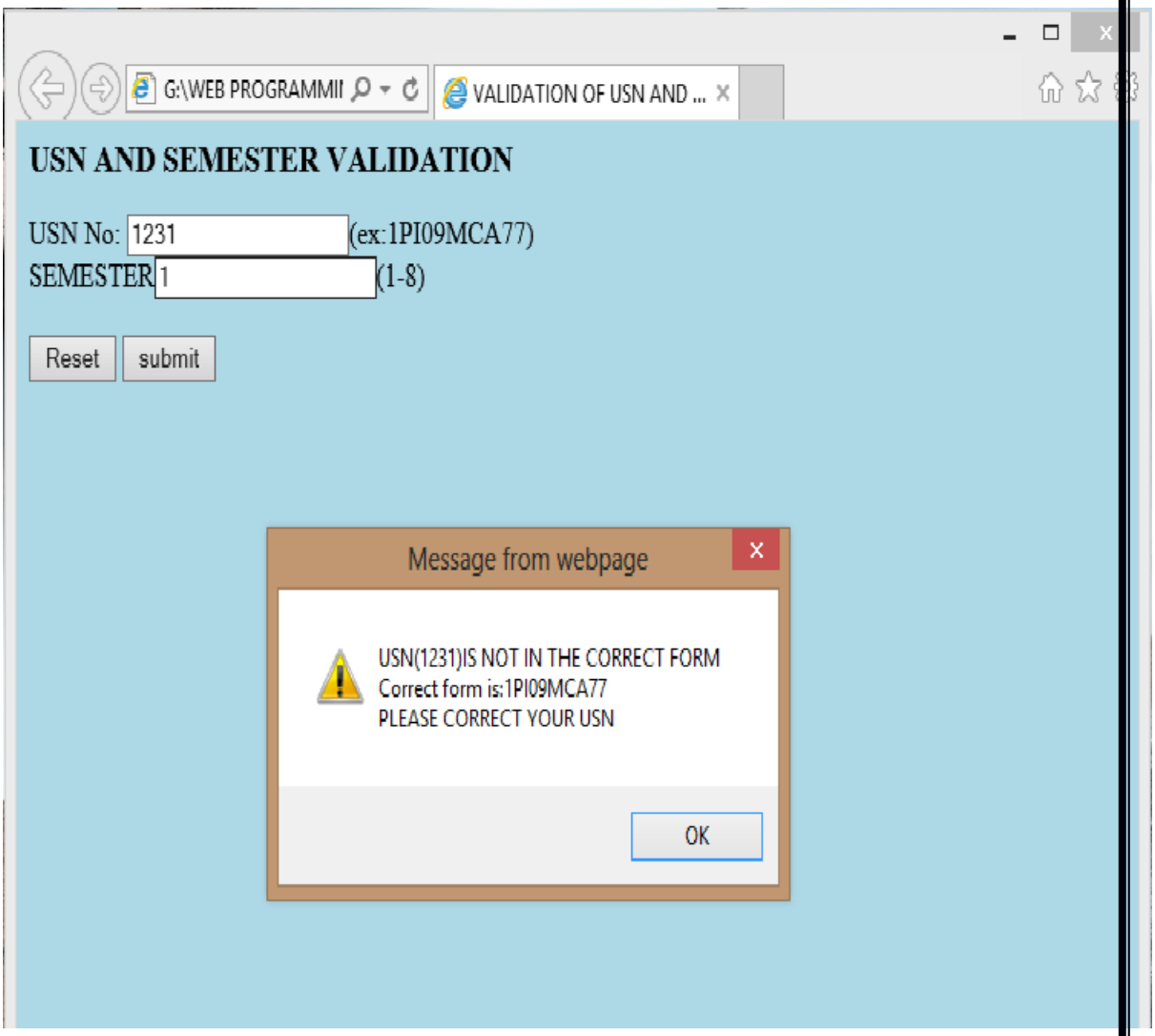
b) Modify the above program to get the current semester also (restricted to be a number from 1 to 8).

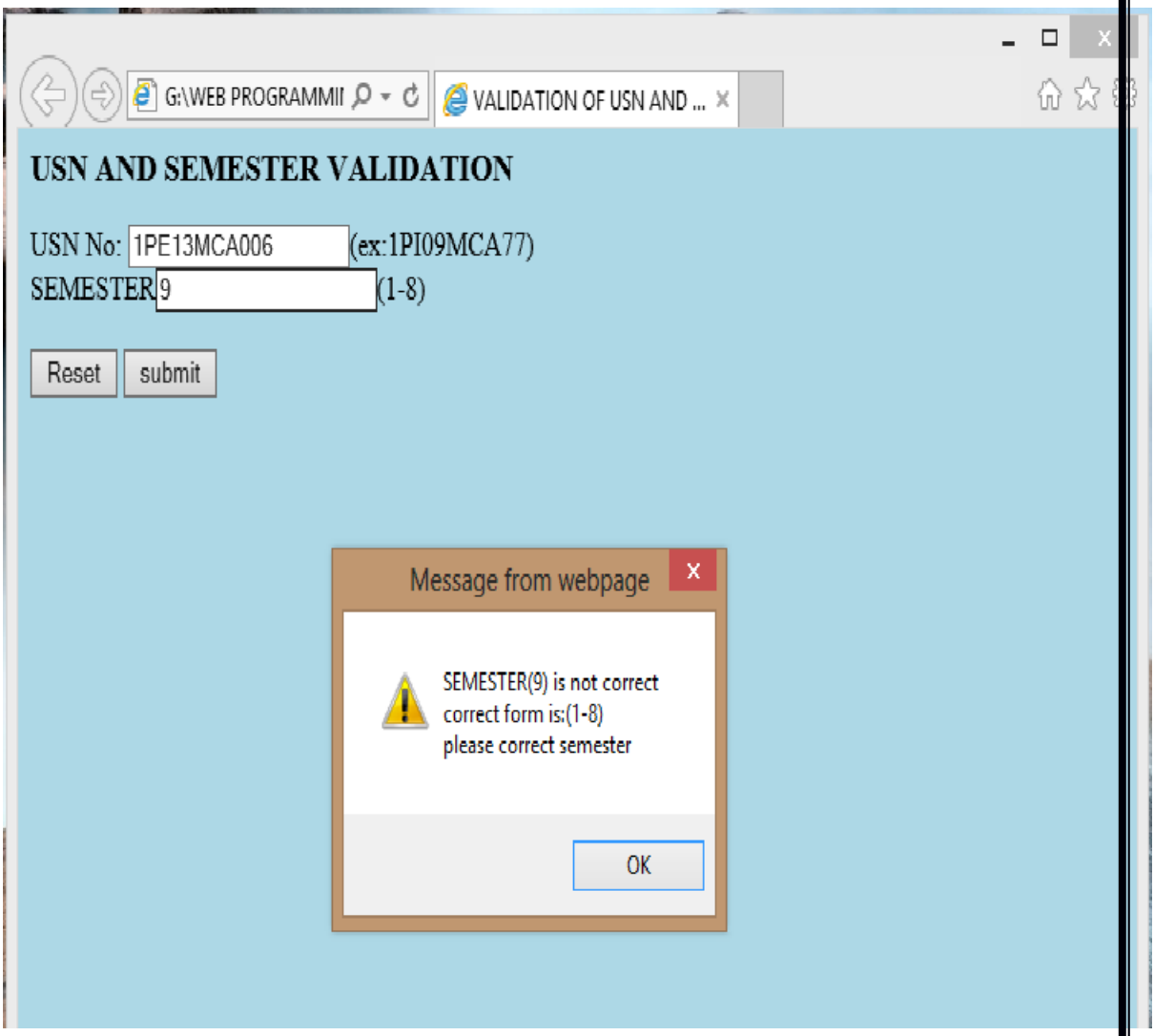
5b.html

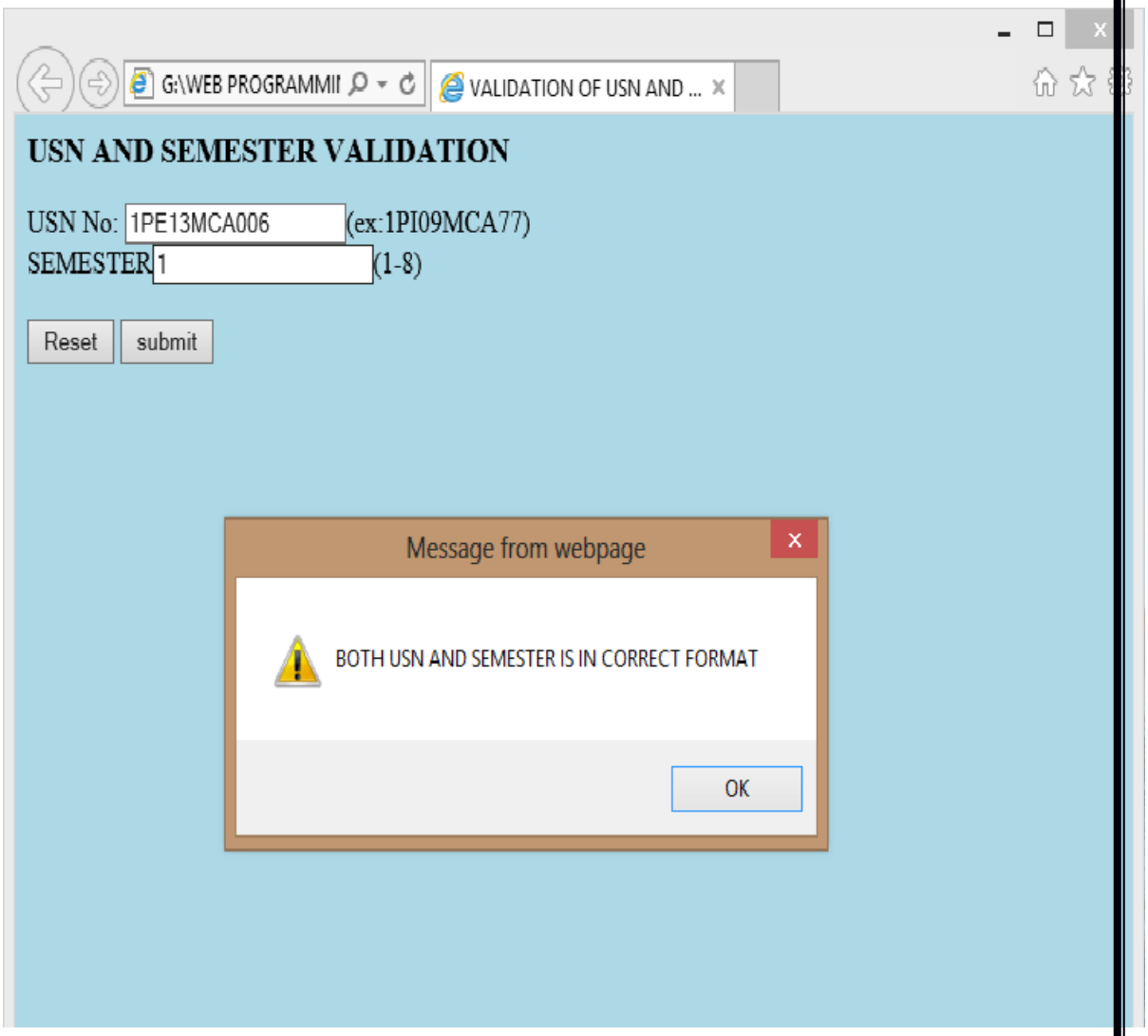
```
<html>
<head>
<title>VALIDATION OF USN AND SEMESTER</title>
<script type="text/javascript">
function chkusn()
{
var myusn=document.getElementById("usn");
var pos=myusn.value.search(/^[1-4][A-Z][A-Z]\d{2}[A-Z][A-Z][A-Z]\d{3}$/);
var mysem=document.getElementById("sem");
var pos1=mysem.value.search(/[1-8]$/);
if(pos!=0&&pos1==0)
{
alert("USN("+myusn.value+")IS NOT IN THE CORRECT FORM\n"+"Correct form is:"+"1PI09MCA77\n"+"PLEASE CORRECT YOUR USN");
return false;
myusn.focus();
myusn.select();
}
else if(pos==0&&pos1!=0)
{
alert("SEMESTER("+mysem.value+") is not correct\n"+"correct form is: (1-8)\n"+"please correct semester");
return false;
mysem.focus();
mysem.select();
}
else if(pos==0&&pos1==0)
```

```
{
alert("BOTH USN AND SEMESTER IS IN CORRECT FORMAT");
return true;
}
}
</script>
</head>
<body bgcolor="lightblue">
<font color="black">
<h3>USN AND SEMESTER VALIDATION</h3>
</font>
<form action=" ">
<p>
USN No: <input type="text" id="usn"/>(ex:1PI09MCA77)<br/>
SEMESTER<input type="text" id="sem"/>(1-8)<br/><br/>
<input type="reset" id="reset"/>
<input type="submit" name="submit" value="submit"/>
</p>
</form>
</font>
<script type="text/javascript">
document.getElementById("sem").onchange=chkusn;
</script>
</body>
</html>
```

OUTPUT:


G:\WEB PROGRAMMII
VALIDATION OF USN AND ...
USN AND SEMESTER VALIDATION
USN No: 1231 (ex:1PI09MCA77)
SEMESTER 1 (1-8)
Reset
submit
Message from webpage
USN(1231)IS NOT IN THE CORRECT FORM
Correct form is:1PI09MCA77
PLEASE CORRECT YOUR USN
OK


G:\WEB PROGRAMMII
VALIDATION OF USN AND ...
USN AND SEMESTER VALIDATION
USN No: 1PE13MCA006 (ex:1PI09MCA77)
SEMESTER 9 (1-8)
Reset
submit
Message from webpage
SEMESTER(9) is not correct
correct form is:(1-8)
please correct semester
OK


G:\WEB PROGRAMMII
VALIDATION OF USN AND ...
USN AND SEMESTER VALIDATION
USN No: 1PE13MCA006 (ex:1PI09MCA77)
SEMESTER 1 (1-8)
Reset
submit
Message from webpage
BOTH USN AND SEMESTER IS IN CORRECT FORMAT
OK

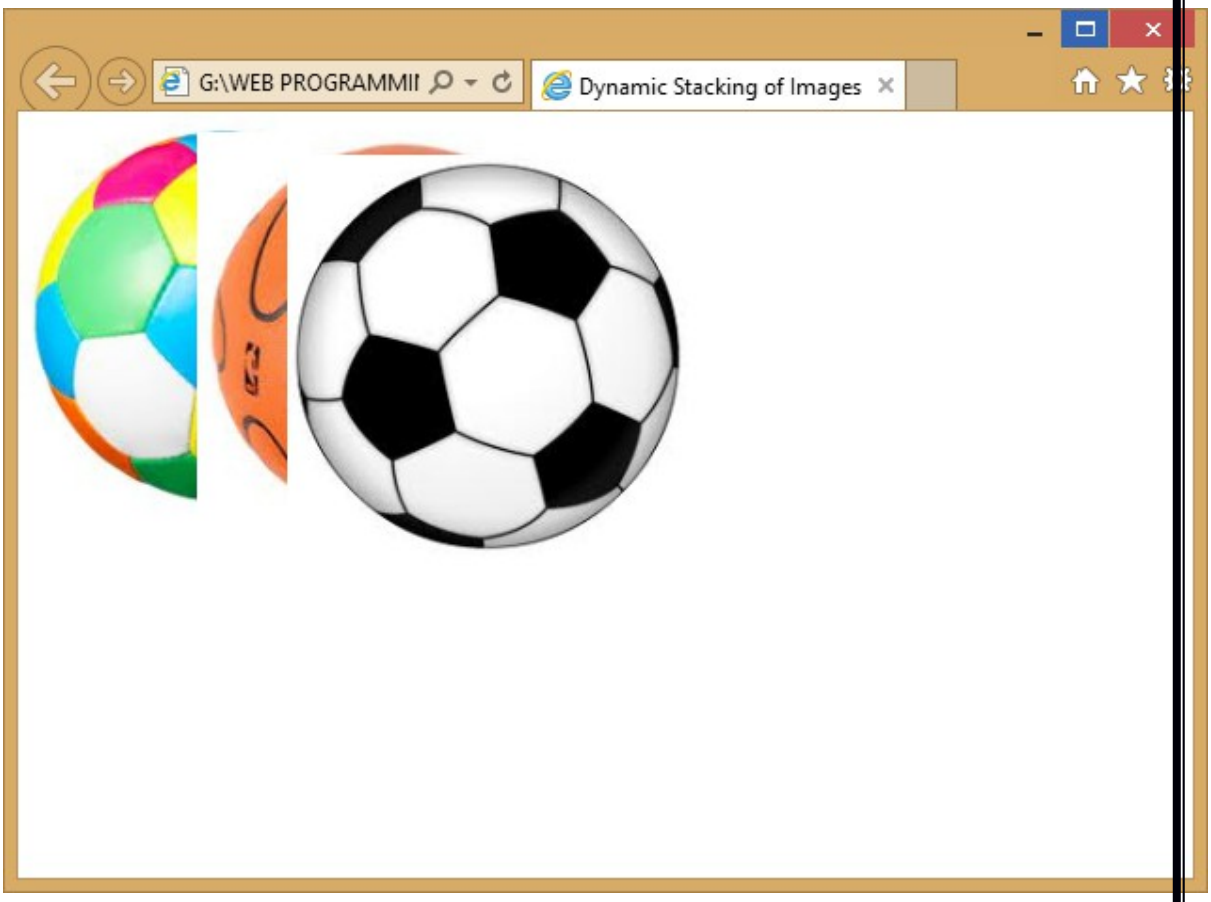
6. a) Develop and demonstrate, using JavaScript script, a XHTML document that contains three images, stacked on top of each other, with only enough of each showing so that the mouse cursor can be placed over some part of them. When the cursor is placed over the exposed part of any paragraph, it should rise to the top to become completely visible.

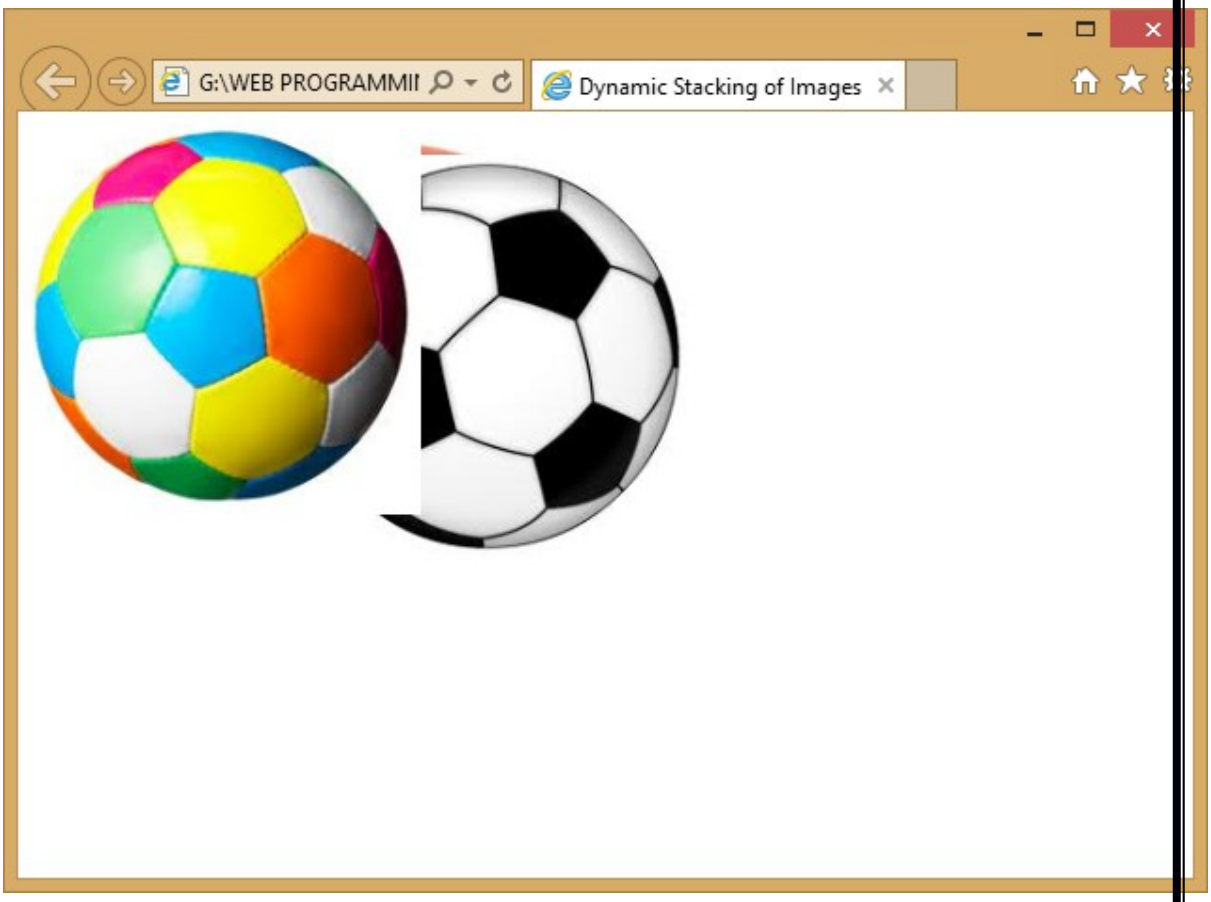
6.HTML

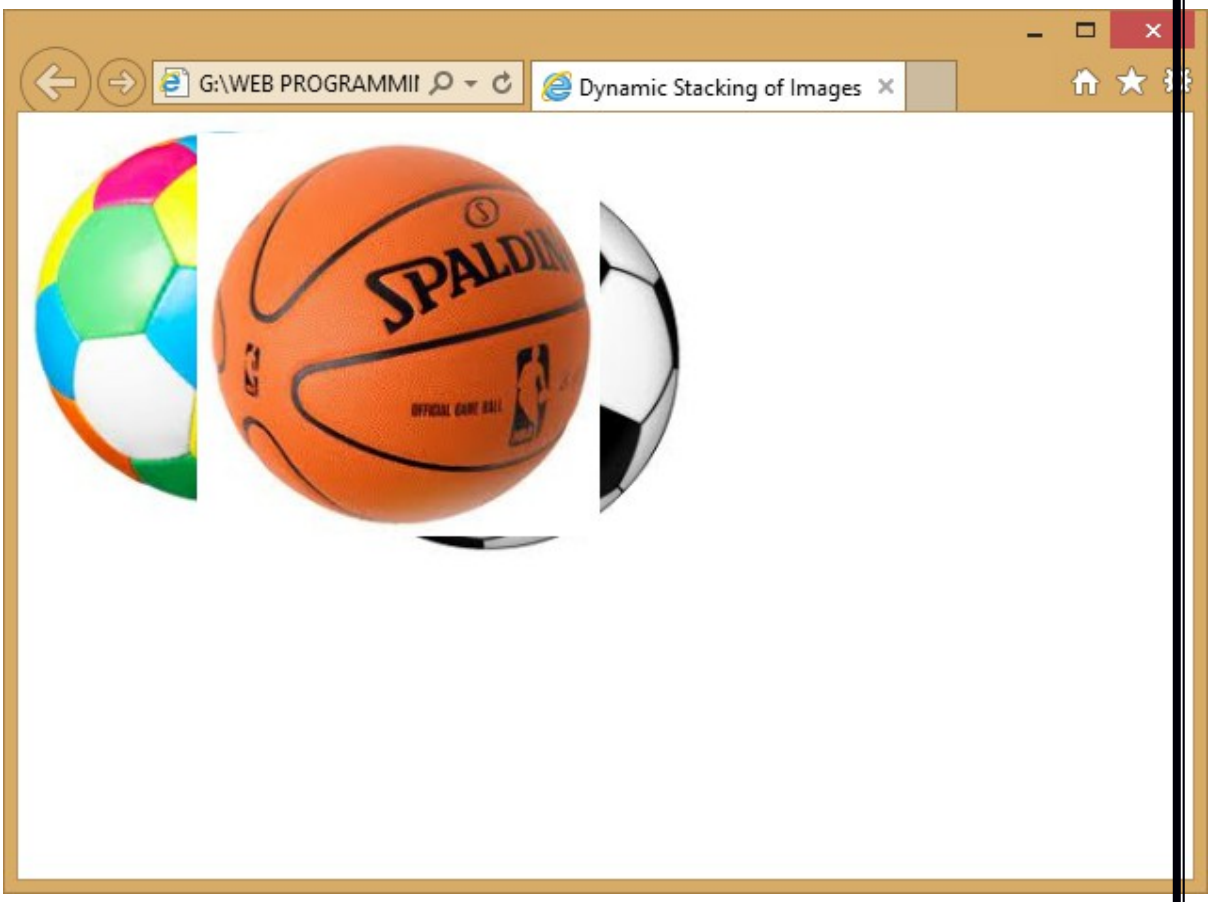
```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>   Dynamic Stacking of Images </title>
<script type="text/javascript" src="stack_images.js">   </script>
<style type="text/css">
.img1
{
 position:absolute; top:0; left:0; z-index:0;
}
.img2
{
  position:absolute; top:12px;left:100px; z-index:0;
}
 .img3
{
  position:absolute; top:24px; left:150px; z-index:0;
 }
</style>
</head>
<body>
<p>
<img class="img1" id="b1" src="b1.png" alt="b1"
onmouseover="toTop('b1')" />
<img class="img2" id="b2" src="b2.jpg" alt="b2"
onmouseover="toTop('b2')" />
```

```
<img class="img3" id="b3" src="b3.png" alt="b3"
onmouseover="toTop('b3')" />

</p>

</body>

</html>
```

OUTPUT:


G:\WEB PROGRAMMII
Dynamic Stacking of Images


G:\WEB PROGRAMMII
Dynamic Stacking of Images


G:\WEB PROGRAMMII
Dynamic Stacking of Images
SPALDING

b) Modify the above document so that when an image is moved from the top stacking position, it returns to its original position rather than to the bottom.

6b.HTML

```
<? xml version="1.0" encoding="utf-8"?>
<! DOC TYPE html PUBLIC"-//W3C//DTD XHTML 1.1//EN"
  http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd>
<html xmlns="html://www.w3.org/1999/xhtml">
<head>
<title>Stack2</title>
<style type="text/css">
 .img1
{
  position:absolute; top:0; left:0; z-index:0;
}
 .img2
{
  position:absolute; top:50px; left:110px; z-index:0;
}
  .img3
{
 position:absolute; top:100px; left:220px; z-index:0;
}
</style>
<script type="text/javascript">
 var top='b3’;
 function toTop(newTop)
{
 domTop=document.getElementById(top).style
```

```
 domNew=document.getElementById(newTop).style
 domTop.zIndex="0"
 domNew.zIndex="10"
 top=newTop
}
</script>
</head>
<body>
<p>
<img class="img1" id="b1" src="b1.png" alt="b1"
 onmouseover="toTop('b1')" onMouseOut="topTop('b3')"/>
<img class="img2" id="b2" src="b2.jpg" alt="b2"
 onmouseover="toTop('b2')" onMouseOut="toTop('b3')"/>
<img class="img3" id="b3" src="b3.png" alt="b3"
 onmouseover="toTop('b3')" onMouseOut="toTop('b3')"/>
</body>
</html>
```

OUTPUT:

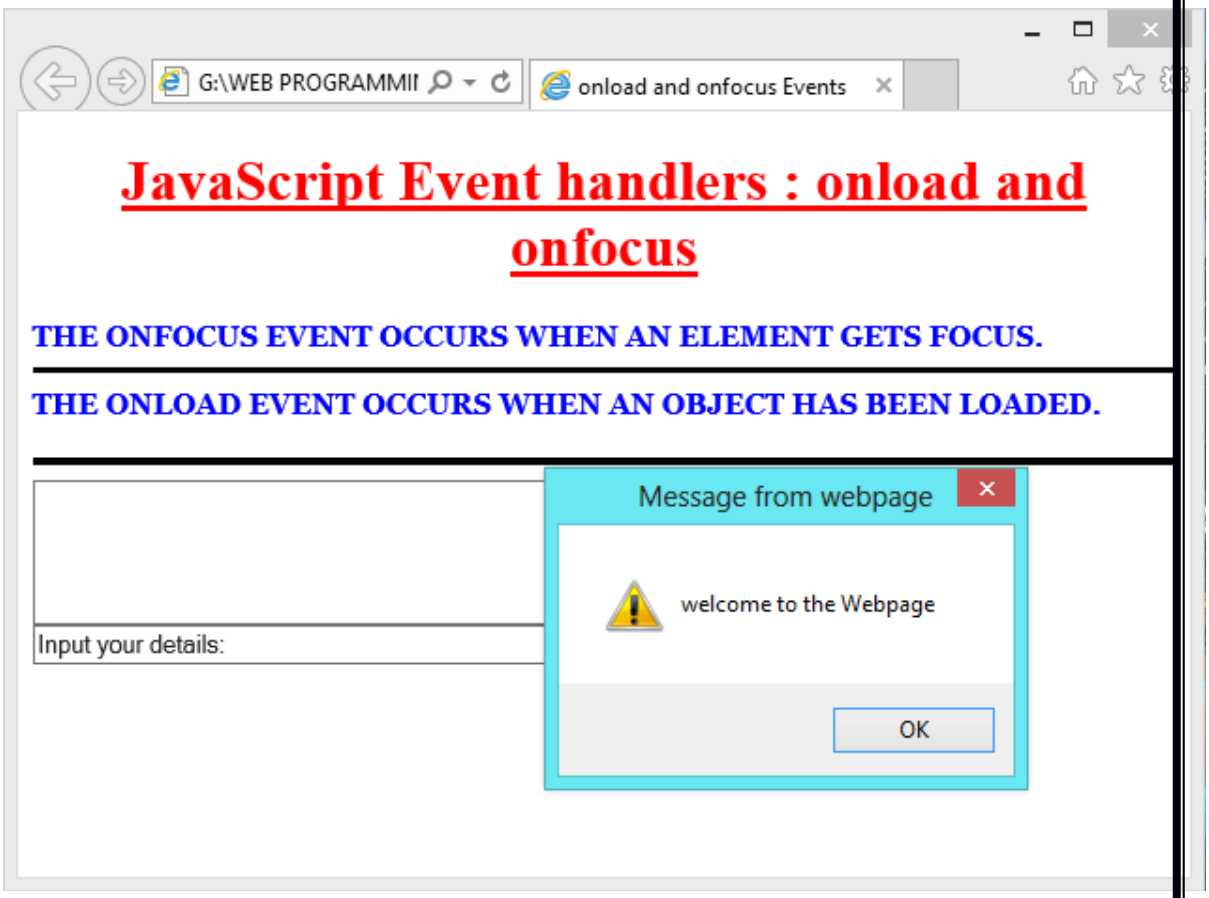

G:\WEB PROGRAMMII
Stack2

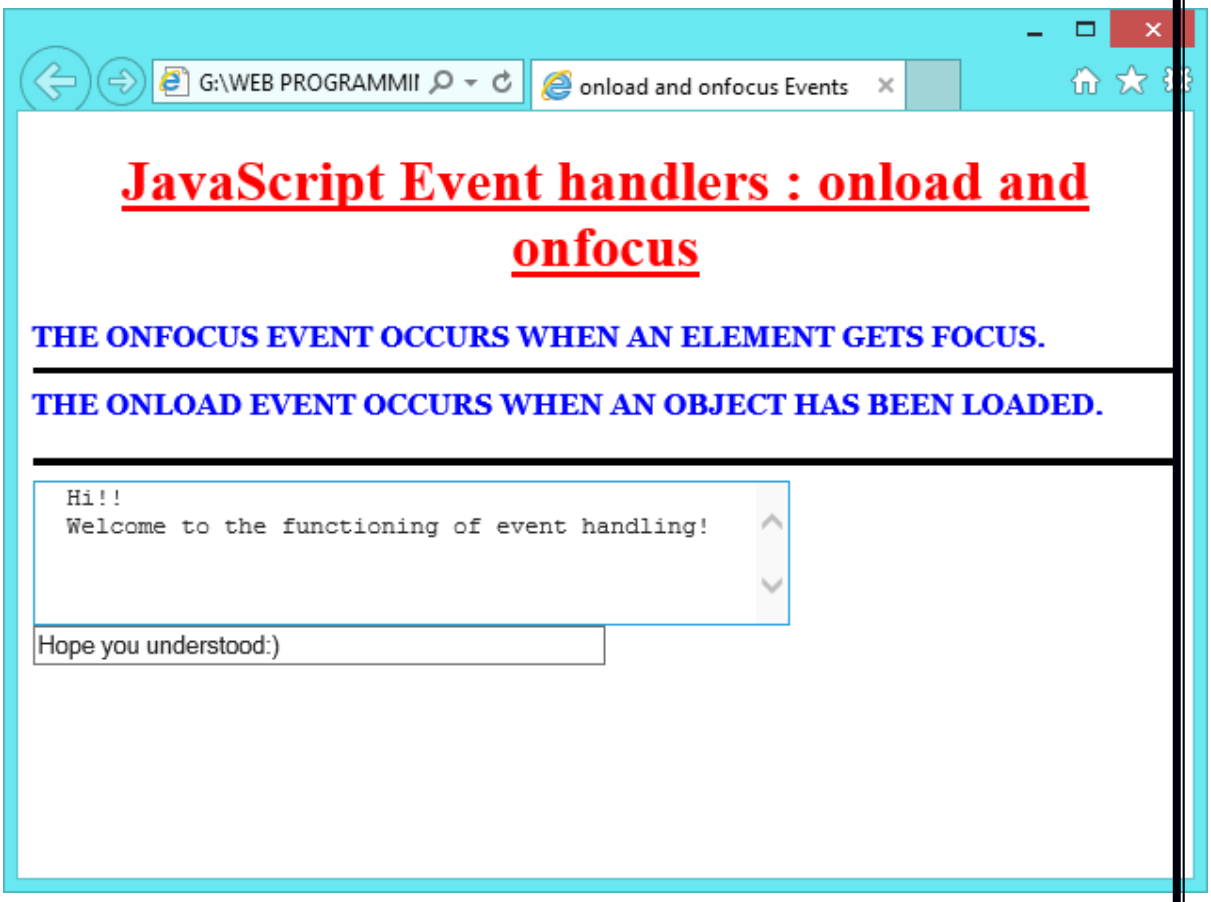
7. Develop using JavaScript script, an XHTML document that use of onload and onfocus events

```
<?xml version="1.0" encoding="utf-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml 11/DTD/xhtml 11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title> onload and onfocus Events </title>
<script type="text/javascript">
 function textareafocus()
{
  document.messg.value="Input Details";
}
  function load_greet()
{
 alert("welcome to the Webpage ");
 }
</script>
</head>
<body onload="load_greet();">
<form>
<h1 style="color: red;font-family:Times new roman;font-size:30;
text-align:center;text-decoration:underline;">
    JavaScript Event handlers : onload and onfocus </h1>
<h4
style="color:blue;font-size:25;font-family:georgia;text-transform:uppercase;">
 The onfocus event occurs when an element gets focus. <br />
 <hr size="2" color="black"/>
 The onload event occurs when an object has been loaded. <br /></h4>
 <hr size="2" color="black"/>
 <form name="form1">
 <textarea name="TextArea" rows="5" cols="50" onfocus= "textareafocus()"
```

```
        color="black">  </textarea>
<br />
<input type="text" name="messg"  value="Input your details:"  size="50"/>
</form>
</body>
</html>
```

OUTPUT:


G:\WEB PROGRAMMII
onload and onfocus Events
JavaScript Event handlers : onload and onfocus
THE ONFOCUS EVENT OCCURS WHEN AN ELEMENT GETS FOCUS.
THE ONLOAD EVENT OCCURS WHEN AN OBJECT HAS BEEN LOADED.
Input your details:
Message from webpage
welcome to the Webpage
OK


G:\WEB PROGRAMMII
onload and onfocus Events
JavaScript Event handlers : onload and onfocus
THE ONFOCUS EVENT OCCURS WHEN AN ELEMENT GETS FOCUS.
THE ONLOAD EVENT OCCURS WHEN AN OBJECT HAS BEEN LOADED.
Hi!!
Welcome to the functioning of event handling!
Hope you understood:)

8. a) Design an XML document to store information about a student in an engineering college affiliated to VTU. The information must include USN, Name, Name of the College, Branch, 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.

8a.xml

```
<?xml version="1.0" encoding="utf-8" ?>
<?xml-stylesheet type="text/css" href="8a.css"?>
<vcet>
<student>
<usn>1PE13MCA05</usn>
<name>Anthony Vinay</name>
<college>PESIT-BSC</college>
<branch>MCA</branch>
<year>2013</year>
<email>vinay@gmail.com</email>
</student>
<student>
<usn>1PE13MCA06</usn>
<name>Bharath</name>
<college>PESIT-BSC</college>
<branch>MCA</branch>
<year>2013</year>
<email>bharath_bhakta@yahoo.co.in</email>
</student>
<student>
<usn>1PE13MCA07</usn>
<name>Chaitanya</name>
```

<college>PESIT-BSC</college>

<branch>MCA</branch>

<year>2013</year>

<email>chaitanya@gmail.com</email>

</student>

</vcet>

8a.css

usn{display:block;margin-left:10px;font-size:14pt;color:silver;}

name{display:block;margin-left:20px;font-size:14pt;color:red;}

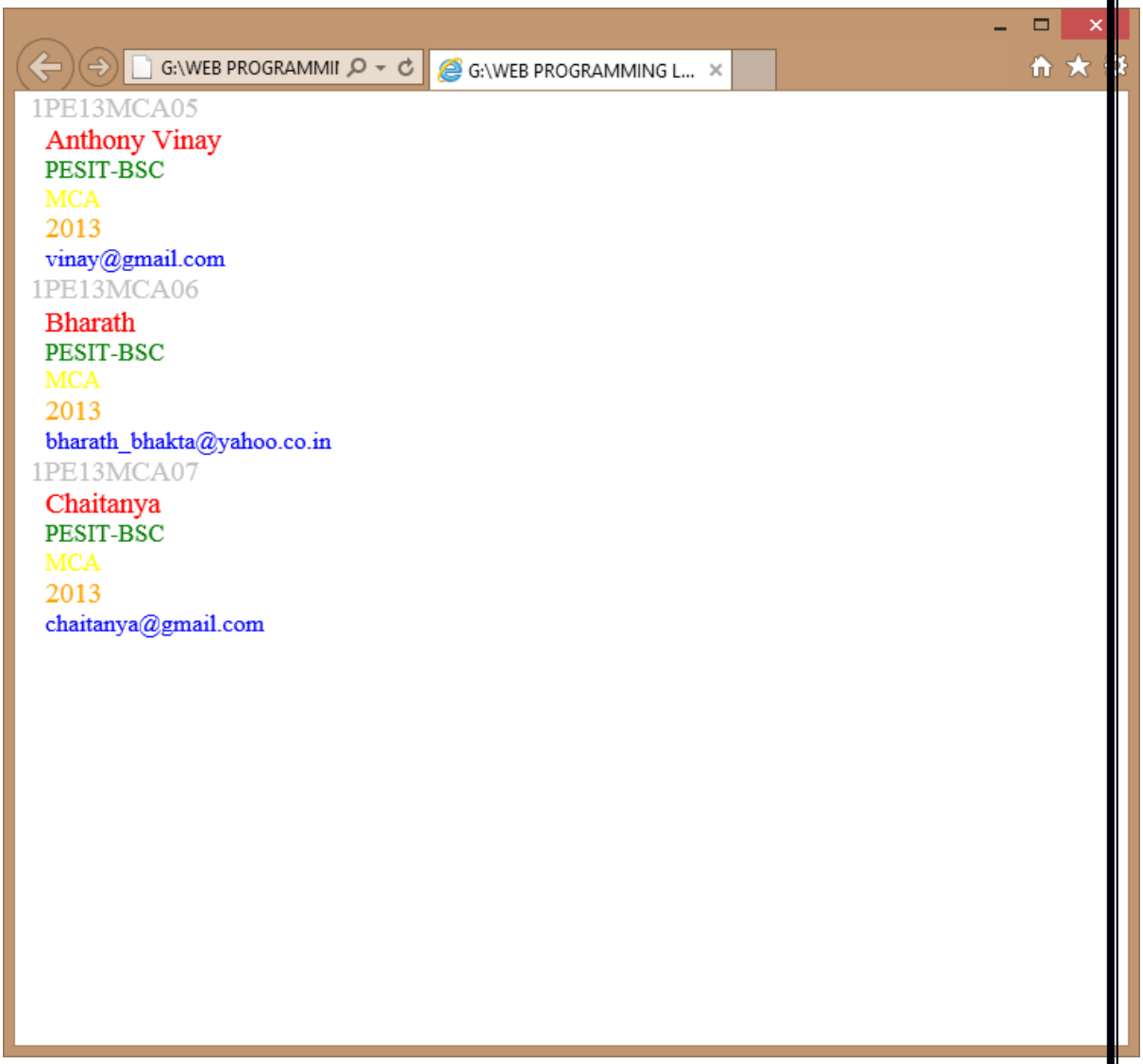
college{display:block;margin-left:20px;font-size:12pt;color:green;}

branch {display:block;margin-left:20px;font-size:12pt;color:yellow;}

year {display:block;margin-left:20px;font-size:14pt;color:orange;}

email {display:block;margin-left:20px;font-size:12pt;color:Blue;}

OUTPUT:



b) Create an XSLT style sheet for one student element of the above document and use it to create a display of that element.

8b.xml

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="8b.xsl"?>
<student>
<usn>1PE13MCA06</usn>
<name>Bharath</name>
<college>PESIT-BSC</college>
<branch>MCA</branch>
<year>2013</year>
<e-mail>bharath_bhakta@yahoo.co.in</e-mail>
</student>
```

8b.xsl

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns="http://www.w3.org/1999/xhtml">
<xsl:template match="/student">
<html>
<head>
<title>Style sheet for StudentXsl</title>
<style>
.shead{font-style:bold;font-size:18;color:blue;}
.svalue{font-style:bold;color:red;}
h2{color:darkviolet;}
body{background-color:yellow;}
</style>
</head>
```

```
<body>
<pre>
<h2>Student Details</h2>
<span class="shead">USN :</span>
<span class="svalue"><xsl:value-of select="usn"/></span><br/>
<span class="shead">Name :</span>
<span class="svalue"><xsl:value-of select="name"/></span><br/>
<span class="shead">College :</span>
<span class="svalue"><xsl:value-of select="college"/></span><br/>
<span class="shead">Branch :</span>
<span class="svalue"><xsl:value-of select="branch"/></span><br/>
<span class="shead">Year :</span>
<span class="svalue"><xsl:value-of select="year"/></span><br/>
<span class="shead">e-mail :</span>
<span class="svalue"><xsl:value-of select="e-mail"/></span><br/>
</pre>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

OUTPUT:


G:\WEB PROGRAMMII
Style sheet for StudentXsl
Student Details
USN :1PE13MCA06
Name :Bharath
College :PESIT-BSC
Branch :MCA
Year :2013
e-mail :bharath_bhakta@yahoo.co.in

9. Write a Perl program which demonstrates the usage of scalar variables and arrays

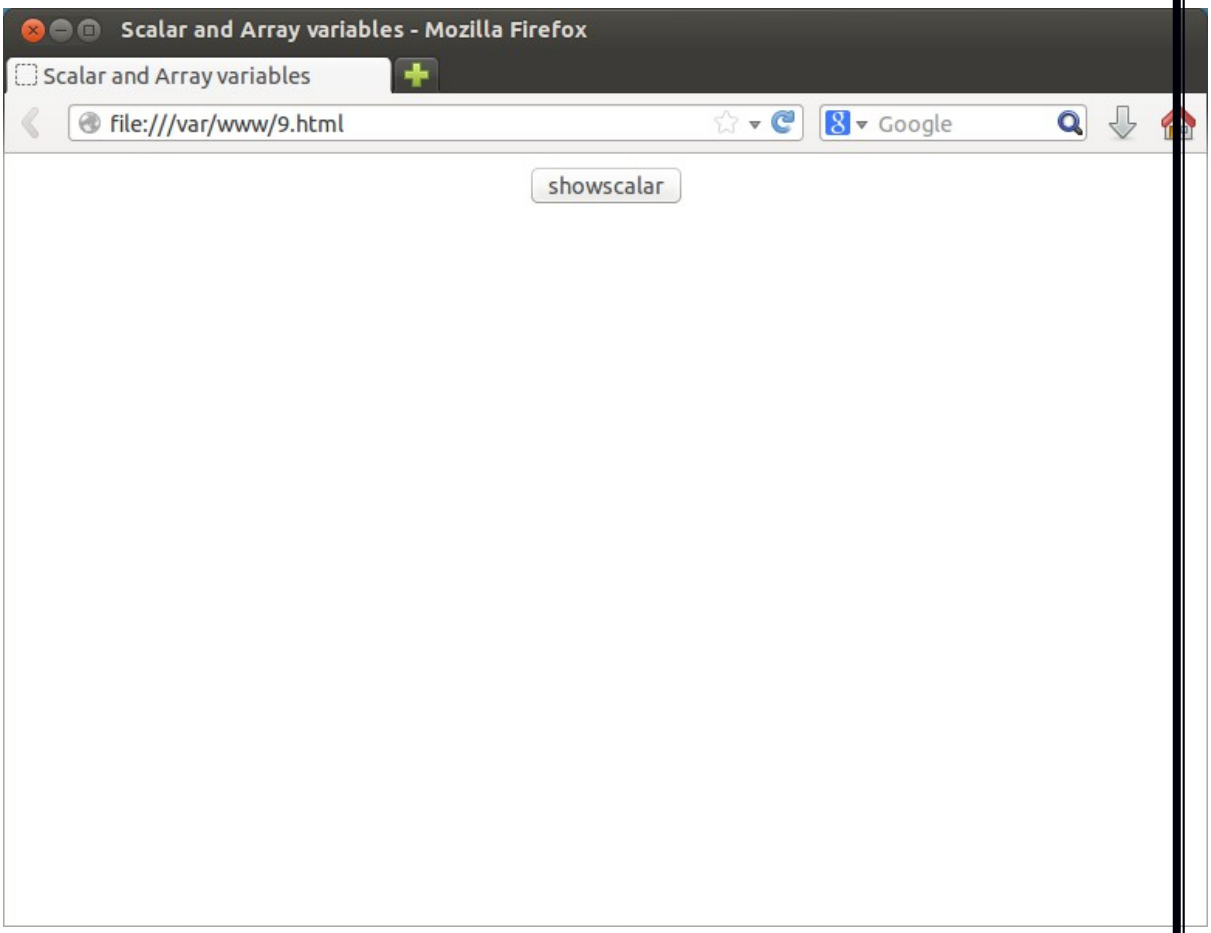
9.pl

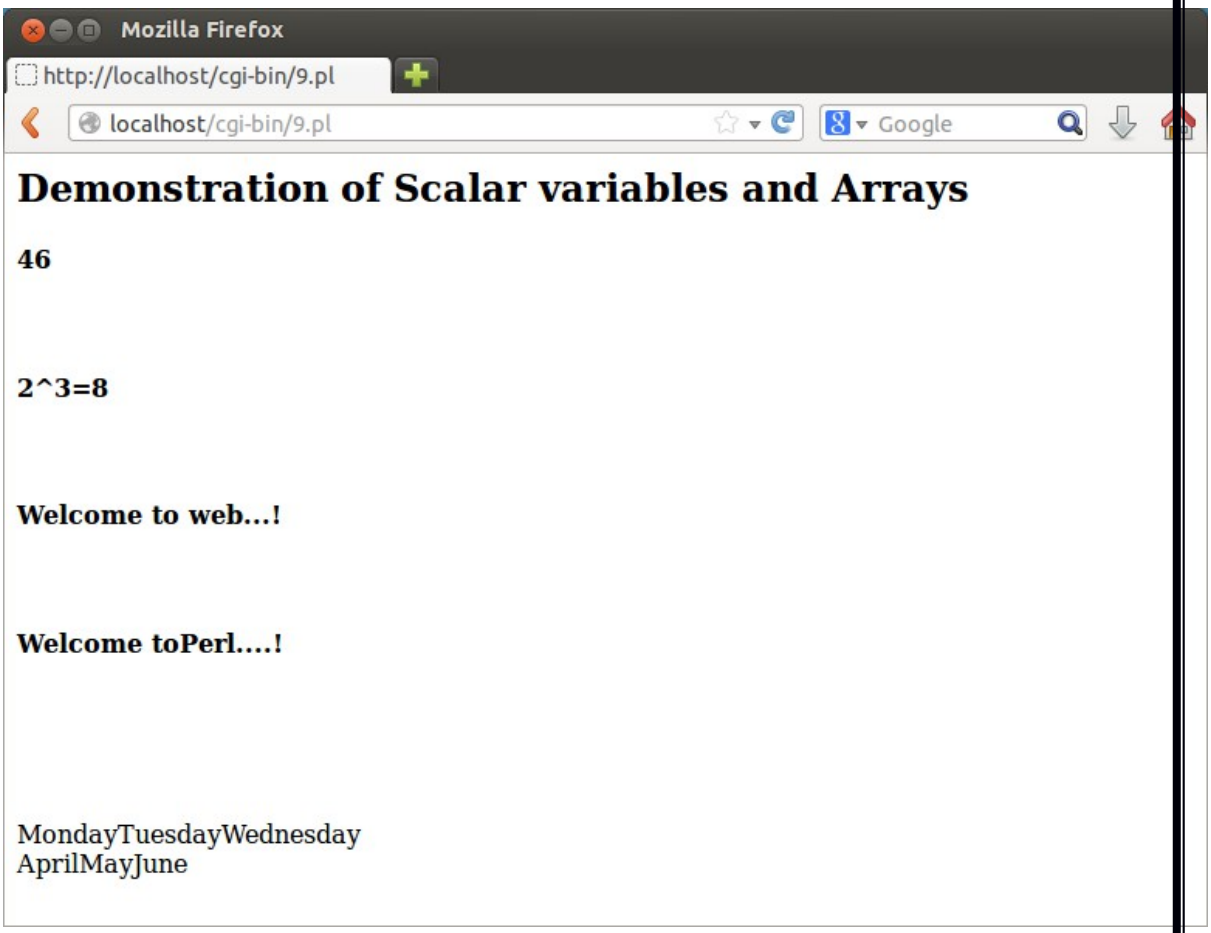
```
#!/usr/bin/perl
print "Content-type:text/html\n\n";
$number=46;
$square="2^3=8";
$string="Welcome to web...!";
$substring1="Welcome to";
$substring2="Perl....!";
$linebreak="<br/>";
@days=("Monday","Tuesday","Wednesday");
@months=("April","May","June");
print "<h2>"."Demonstration of Scalar variables and Arrays"."</h2>";
print "<h4>".$number."</h4>";
print "<h4>".$linebreak."</h4>";
print "<h4>".$square."</h4>";
print "<h4>".$linebreak."</h4>";
print "<h4>".$string."</h4>";
print "<h4>".$linebreak."</h4>";
print "<h4>".$substring1.$substring2."</h4>";
print "<h4>".$linebreak."</h4>";
print "<h4>".$linebreak."</h4>";
print @days;
print "<br/>";
print @months;
```

9.html

```
<html>
<head>
<title>Scalar and Array variables</title>
</head>
<form action="http://localhost/cgi-bin/9.pl" method="get">
<center><input type="submit" value="showscalar"></center>
</form></body></html>
```

OUTPUT:


Scalar and Array variables - Mozilla Firefox
Scalar and Array variables
file:///var/www/9.html
Google
showscalar


Mozilla Firefox
http://localhost/cgi-bin/9.pl
localhost/cgi-bin/9.pl
Google
Demonstration of Scalar variables and Arrays
46
2^3=8
Welcome to web...!
Welcome toPerl....!
MondayTuesdayWednesday
AprilMayJune

10. Write a Perl program to display various Server information like Server Name, Server Software, Server protocol, CGI Revision etc.

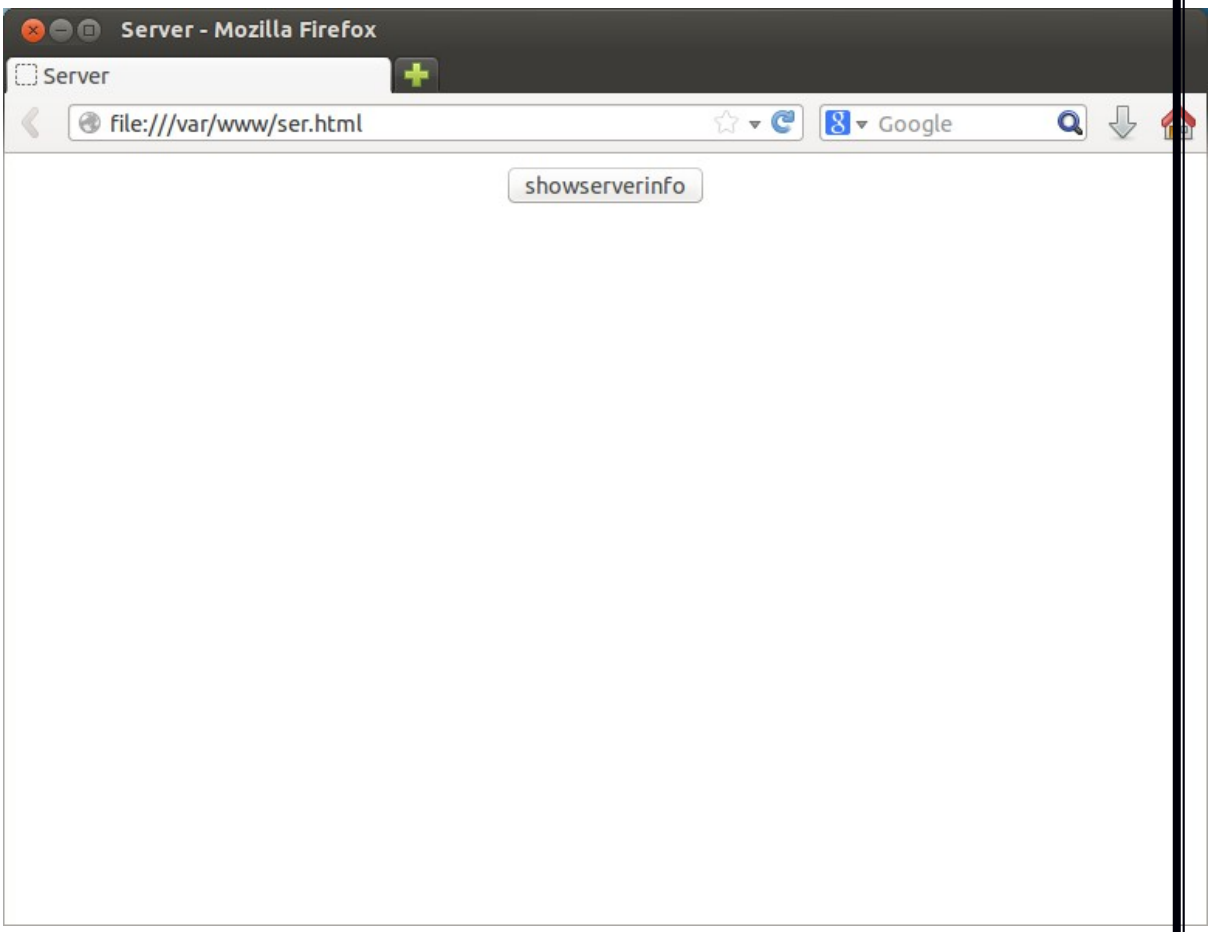
Ser.pl

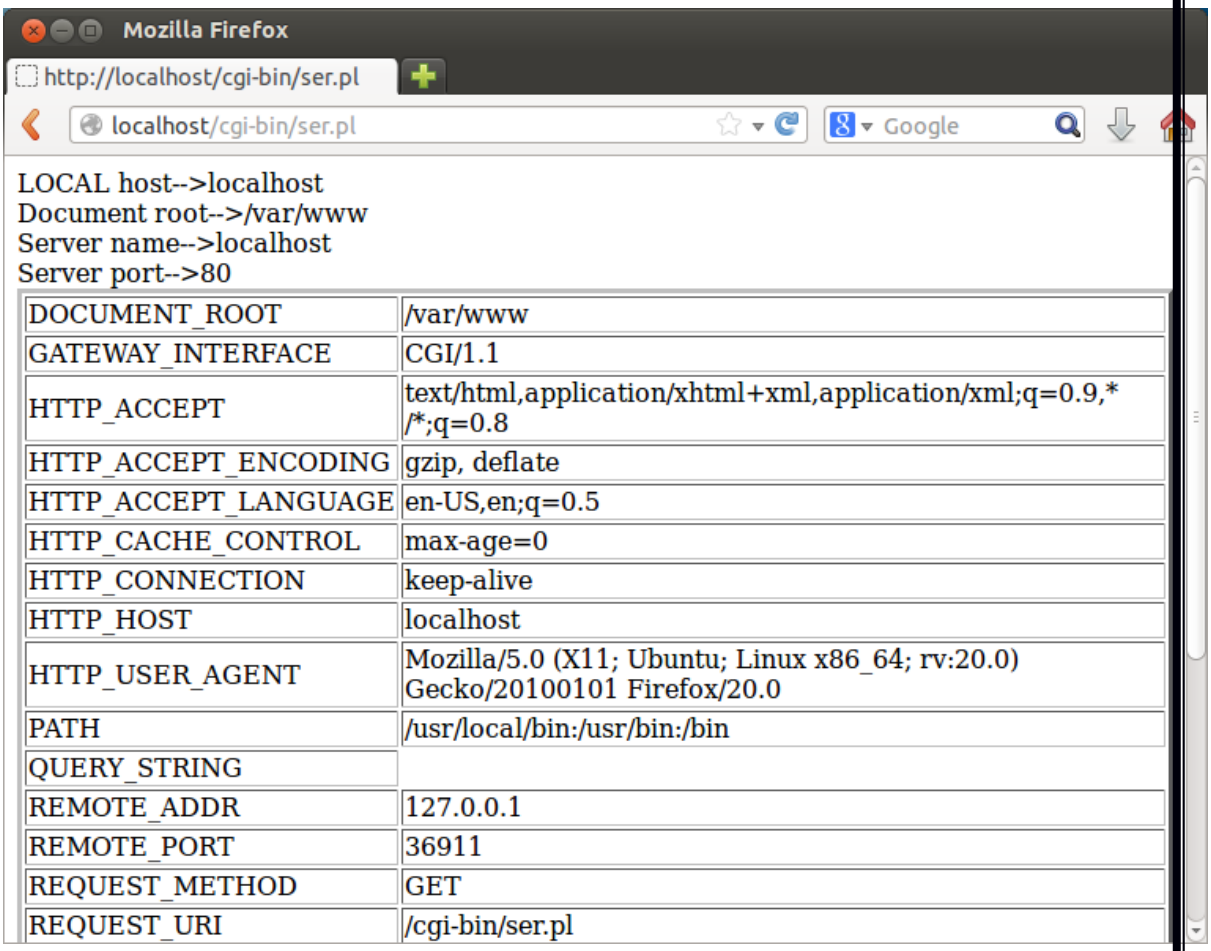
```
#!/usr/bin/perl
use CGI':standard';
print
header(),
start_html(-bgcolor=>"red");
print "<table border=3>";
print "LOCAL host-->$ENV{'HTTP_HOST'}<br/>";
print "Document root-->$ENV{'DOCUMENT_ROOT'}<br/>";
print "Server name-->$ENV{'SERVER_NAME'}<br/>";
print "Server port-->$ENV{'SERVER_PORT'}";
foreach $key(sort keys(%ENV))
{
print "<tr><td>$key</td><td>$ENV{$key}</td></tr>";
}
print "</table></body></html>";
```

Ser.html

```
<html>
<head>
<title>Server</title>
</head>
<form action="http://localhost/cgi-bin/ser.pl" method="get">
<center><input type="submit" value="showserverinfo"></center>
</form>
</body>
</html>
```

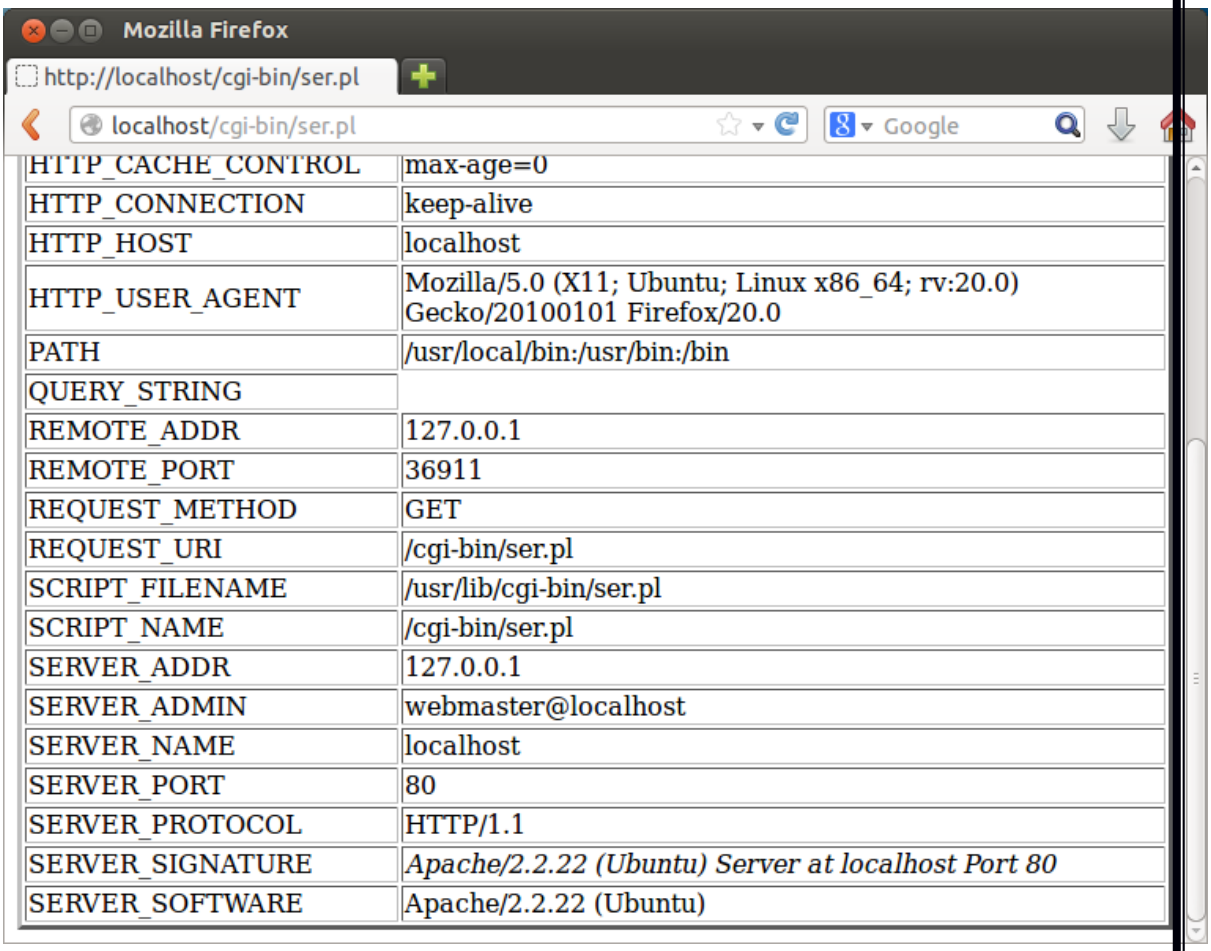
OUTPUT:


Server - Mozilla Firefox
Server
file:///var/www/ser.html
Google
showserverinfo



LOCAL host-->localhost
Document root-->/var/www
Server name-->localhost
Server port-->80

DOCUMENT_ROOT	/var/www
GATEWAY_INTERFACE	CGI/1.1
HTTP_ACCEPT	text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
HTTP_ACCEPT_ENCODING	gzip, deflate
HTTP_ACCEPT_LANGUAGE	en-US,en;q=0.5
HTTP_CACHE_CONTROL	max-age=0
HTTP_CONNECTION	keep-alive
HTTP_HOST	localhost
HTTP_USER_AGENT	Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:20.0) Gecko/20100101 Firefox/20.0
PATH	/usr/local/bin:/usr/bin:/bin
QUERY_STRING	
REMOTE_ADDR	127.0.0.1
REMOTE_PORT	36911
REQUEST_METHOD	GET
REQUEST_URI	/cgi-bin/ser.pl



HTTP_CACHE_CONTROL	max-age=0
HTTP_CONNECTION	keep-alive
HTTP_HOST	localhost
HTTP_USER_AGENT	Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:20.0) Gecko/20100101 Firefox/20.0
PATH	/usr/local/bin:/usr/bin:/bin
QUERY_STRING	
REMOTE_ADDR	127.0.0.1
REMOTE_PORT	36911
REQUEST_METHOD	GET
REQUEST_URI	/cgi-bin/ser.pl
SCRIPT_FILENAME	/usr/lib/cgi-bin/ser.pl
SCRIPT_NAME	/cgi-bin/ser.pl
SERVER_ADDR	127.0.0.1
SERVER_ADMIN	webmaster@localhost
SERVER_NAME	localhost
SERVER_PORT	80
SERVER_PROTOCOL	HTTP/1.1
SERVER_SIGNATURE	*Apache/2.2.22 (Ubuntu) Server at localhost Port 80*
SERVER_SOFTWARE	Apache/2.2.22 (Ubuntu)

11. Write a Perl program to display a digital clock which displays the current time of the server

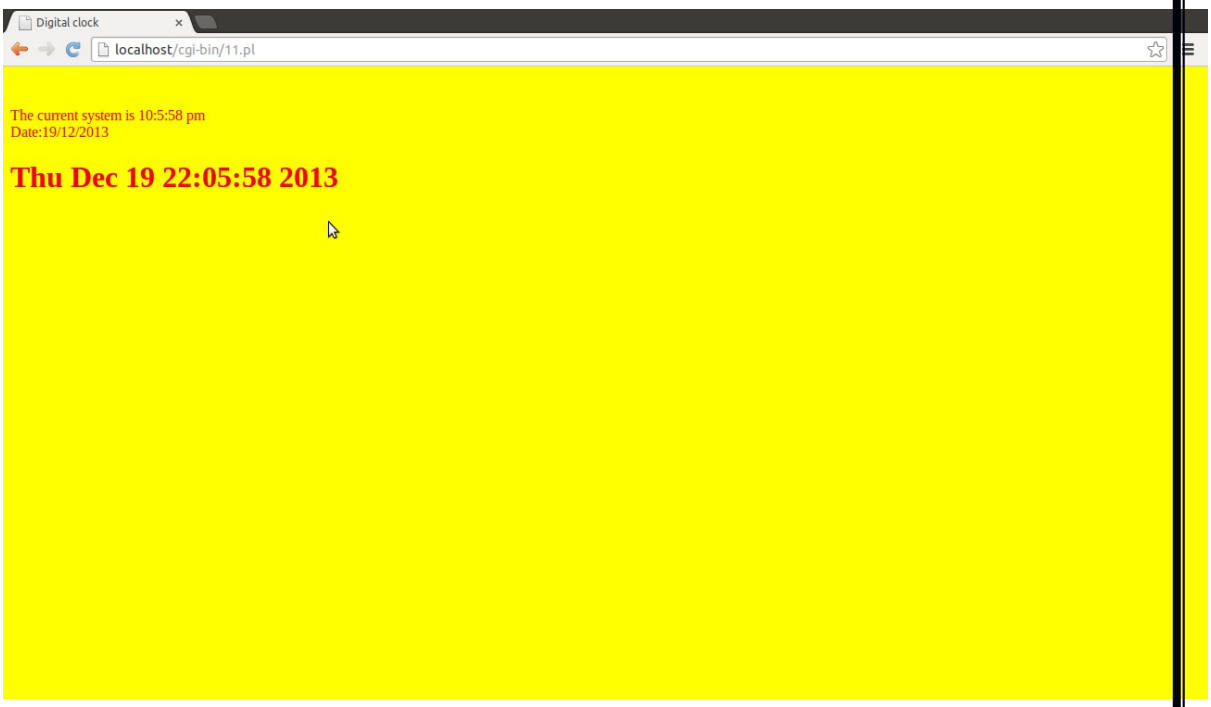
11.pl

```
#!/usr/bin/perl
use CGI ':standard';
print "Refresh: 1\n";
print header(),
start_html(-title=>"Digital clock",-bgcolor=>"yellow",-text=>"red");
($s,$m,$h,$day,$mon,$year)=localtime(time);
$datetime=localtime;
if($h==12)
{
$ampm="pm";
}
elsif($h>=13)
{
$ampm="pm";
$h=$h-12;
}
else
{
$ampm="am";
}
print br,br,"The current system is $h:$m:$s $ampm<br>";
$mon++;
$year=$year+1900;
print "Date:$day/$mon/$year<br>";
print h1,"$datetime";
print end_html();
```

11.html

```
<html>
<head>
<title>Digital Clock</title>
</head>
<body>
<form action="http://localhost/cgi-bin/11.pl" method="get">
<center><input type="submit" value="displayclock"></center>
</form>
</body></html>
```

OUTPUT:


Digital clock
localhost/cgi-bin/11.pl
The current system is 10:5:58 pm
Date:19/12/2013
Thu Dec 19 22:05:58 2013

12. Write a Perl program to accept the User Name and display a greeting message randomly chosen from a list of 4 greeting messages.

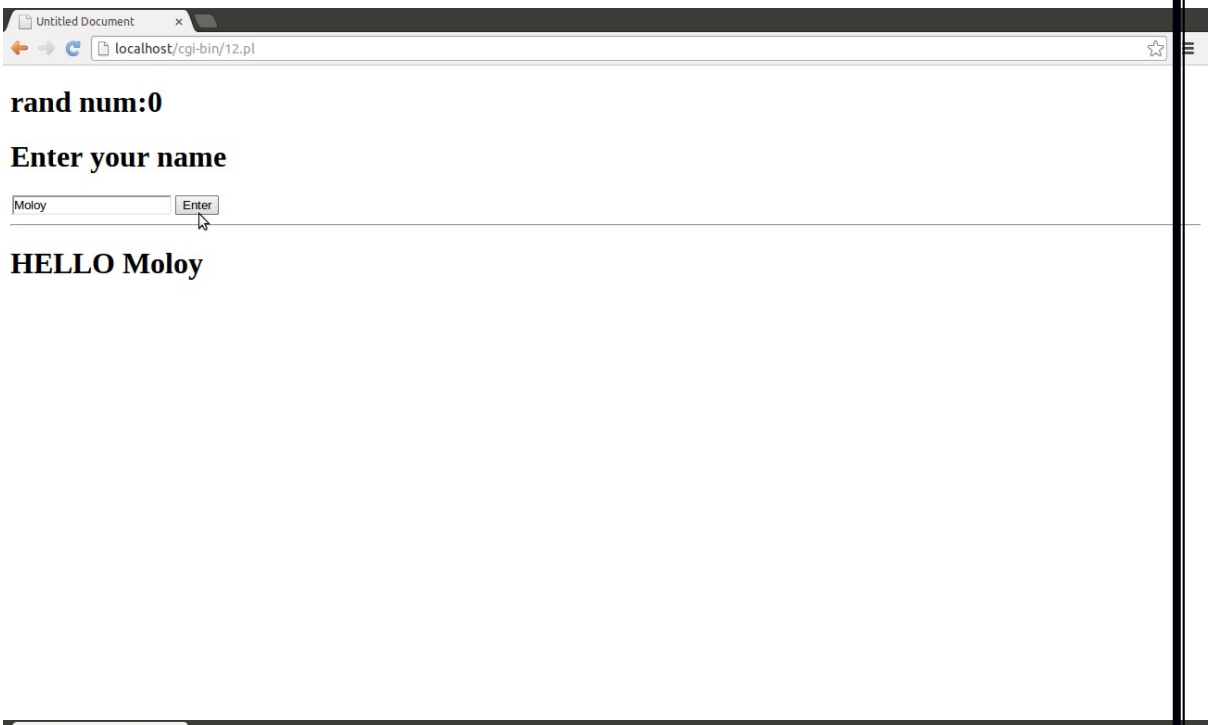
12.pl

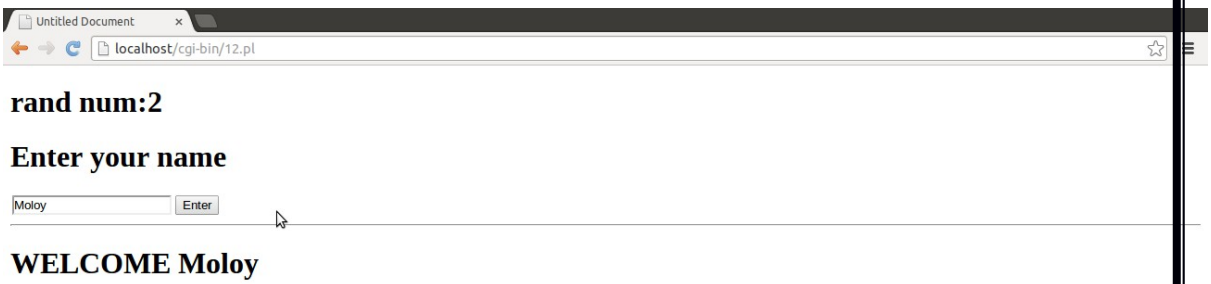
```
#!/usr/bin/perl -w
use CGI ":standard";
$name=param('usr');
@mess=('HELLO','HI','WELCOME','BYE');
$rand=4;
$num=int(rand($rand));
#$n=rand($rand);
print
header(),
start_html(),
h1("rand num:$num"),
h1("Enter your name"),
start_form(-method=>'post',-action=>'12.pl'),
textfield(-name=>'usr'),
submit(-value=>'Enter'),
hr();
if(param)
{
print h1("$mess[$num] $name");
}
print end_form();
print end_html();
```

12.html

```
<html>
<head>
<title>User Name</title>
</head>
<body>
<form action="http://localhost/cgi-bin/12.pl" method="get">
<center><input type="submit" value="showusr"></center>
</form></body></html>
```

OUTPUT:


Untitled Document
localhost/cgi-bin/12.pl
rand num:0
Enter your name
Moloy
Enter
HELLO Moloy


Untitled Document
localhost/cgi-bin/12.pl
rand num:2
Enter your name
Moloy
Enter
WELCOME Moloy

rand num:3

Enter your name

Moloy Enter

BYE Moloy

13. 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.

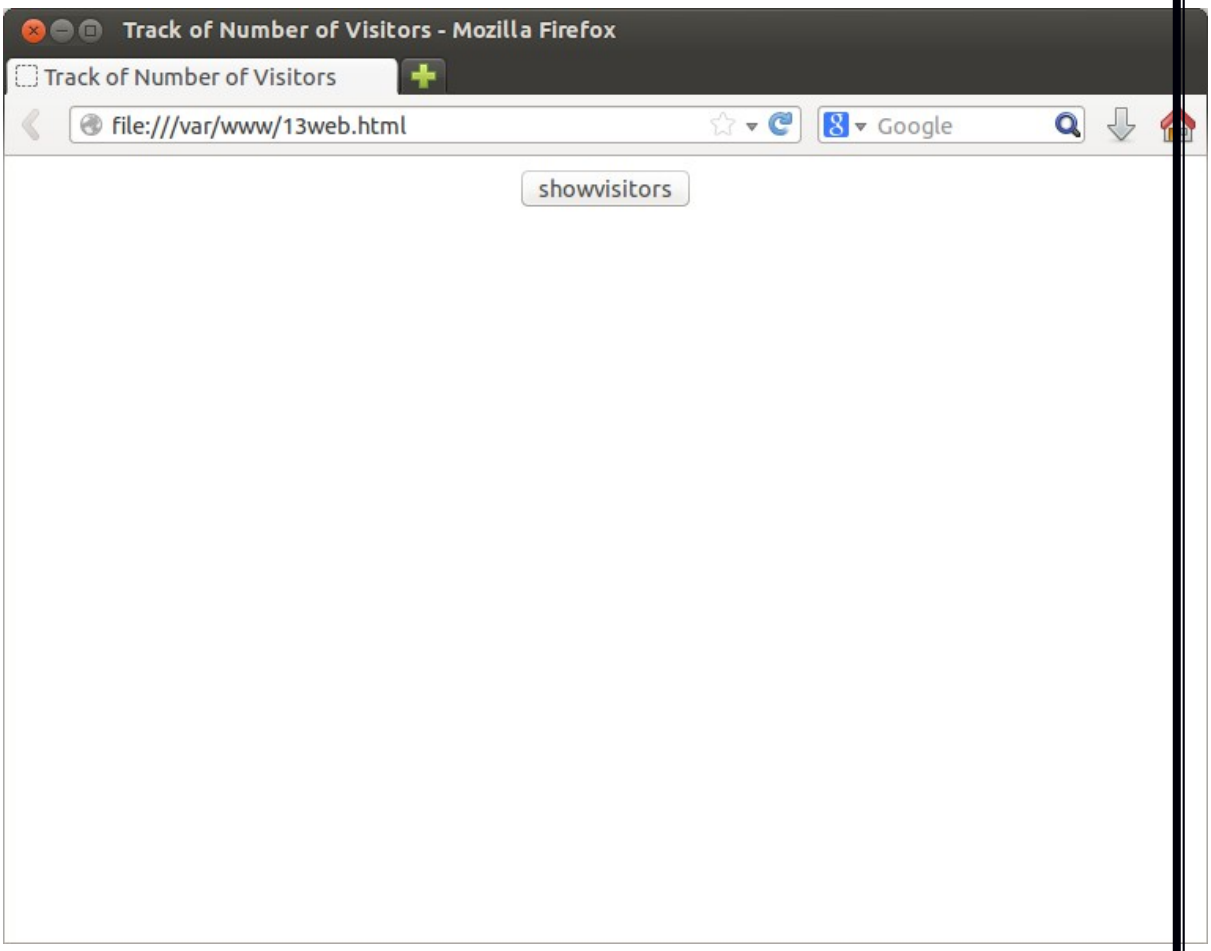
13web.pl

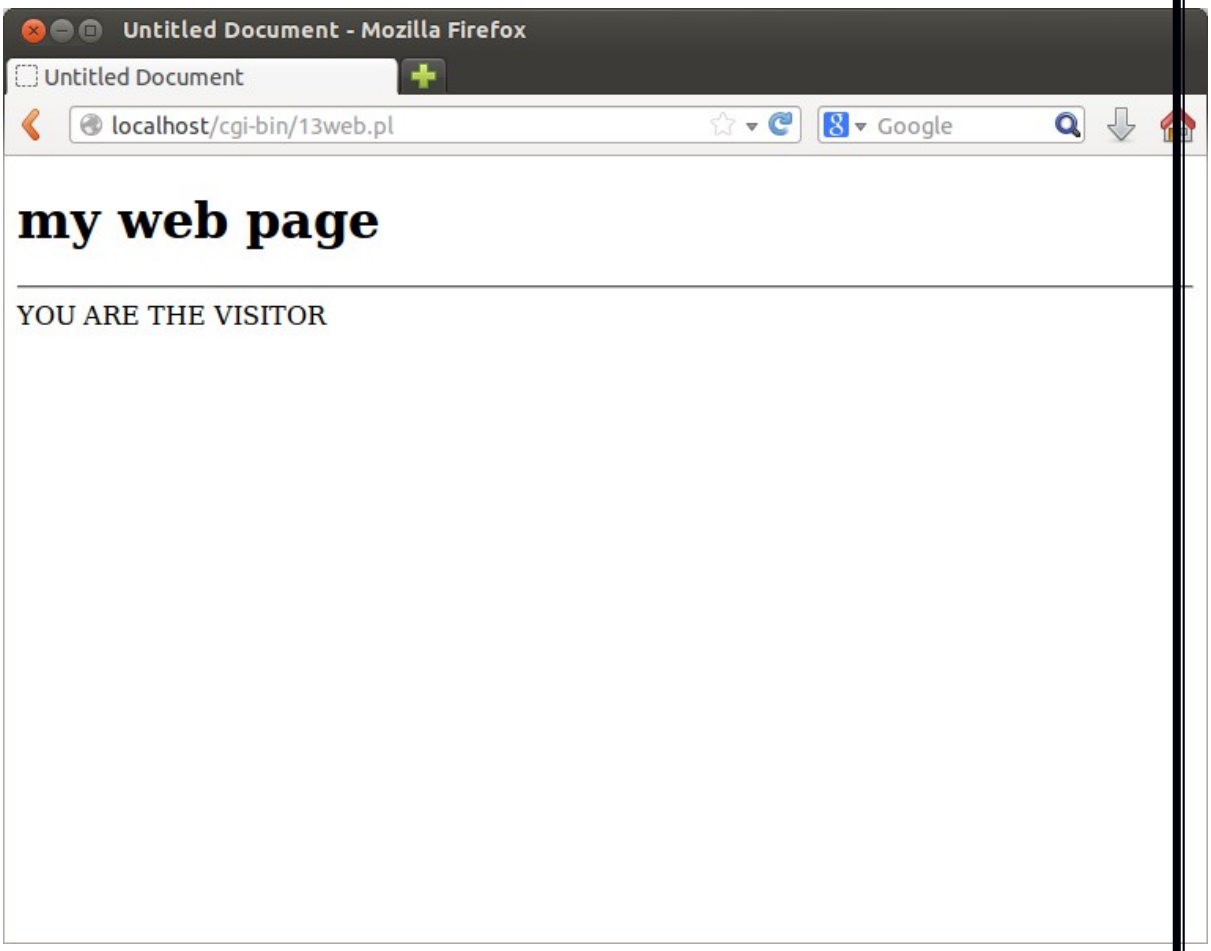
```
#!/usr/bin/perl
use  CGI ‘:standard’;
print
header(),
start_html(),
h1("my web page"),
hr();
$fname='count.txt';
if(open(FH,"<$fname"))
{
$c=<FH>;
$c=$c+1;
close(FH);
}
open(FH,">$fname");
print FH $c;
close(FH);
print "YOU ARE THE $c VISITOR";
print end_html();
_
```

13web.html

```
<html>
<head>
<title>Track of Number of Visitors</title>
</head>
<body>
<form action="http://localhost/cgi-bin/13web.pl" method="get">
<center><input type="submit" value="showvisitors"></center>
</form>
</body>
</html>
```

OUTPUT:


Track of Number of Visitors - Mozilla Firefox
Track of Number of Visitors
file:///var/www/13web.html
Google
showvisitors


Untitled Document - Mozilla Firefox
Untitled Document
localhost/cgi-bin/13web.pl
Google
my web page
YOU ARE THE VISITOR

14. Write a CGI-Perl program to use a cookie to remember the day of the last login from a user and display it when run

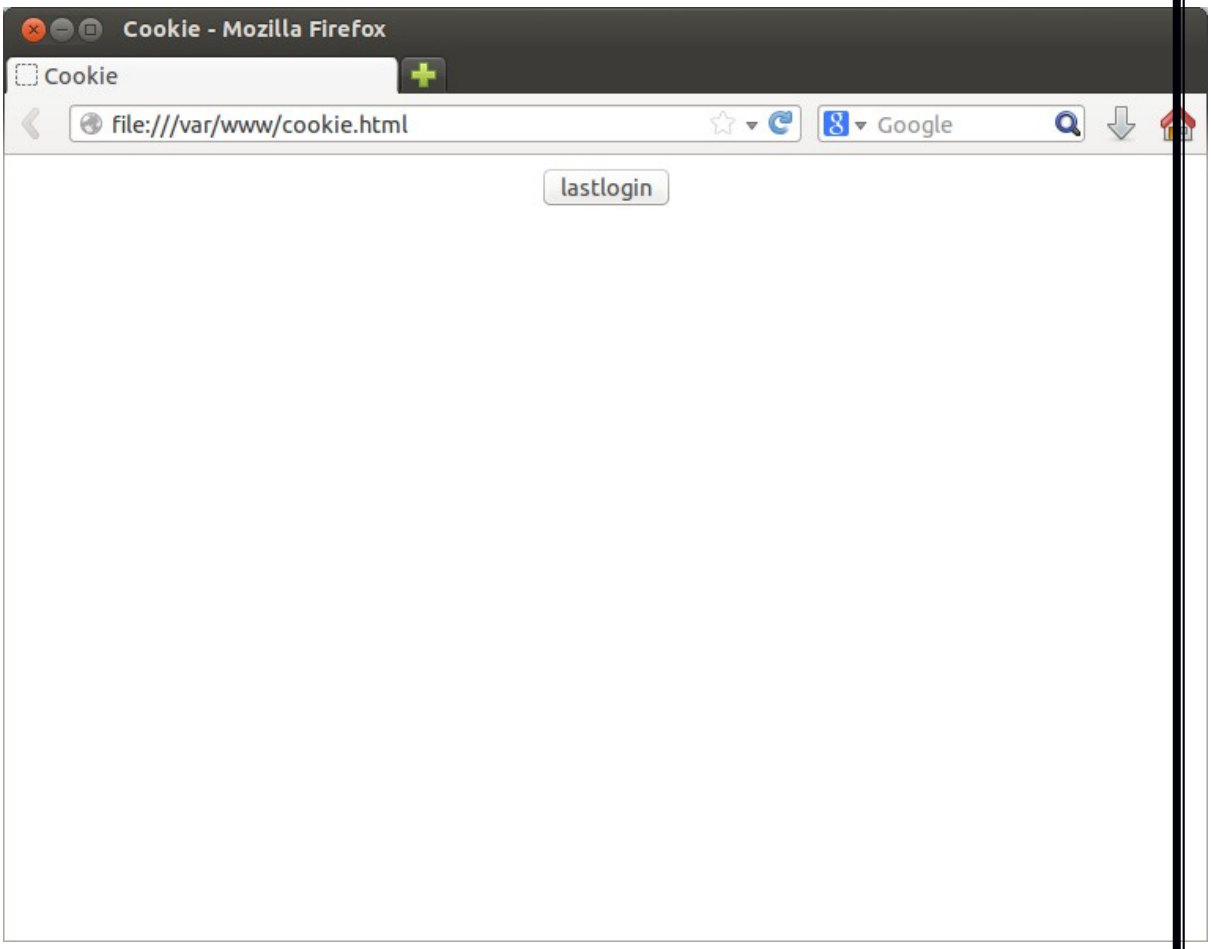
Cookie.pl

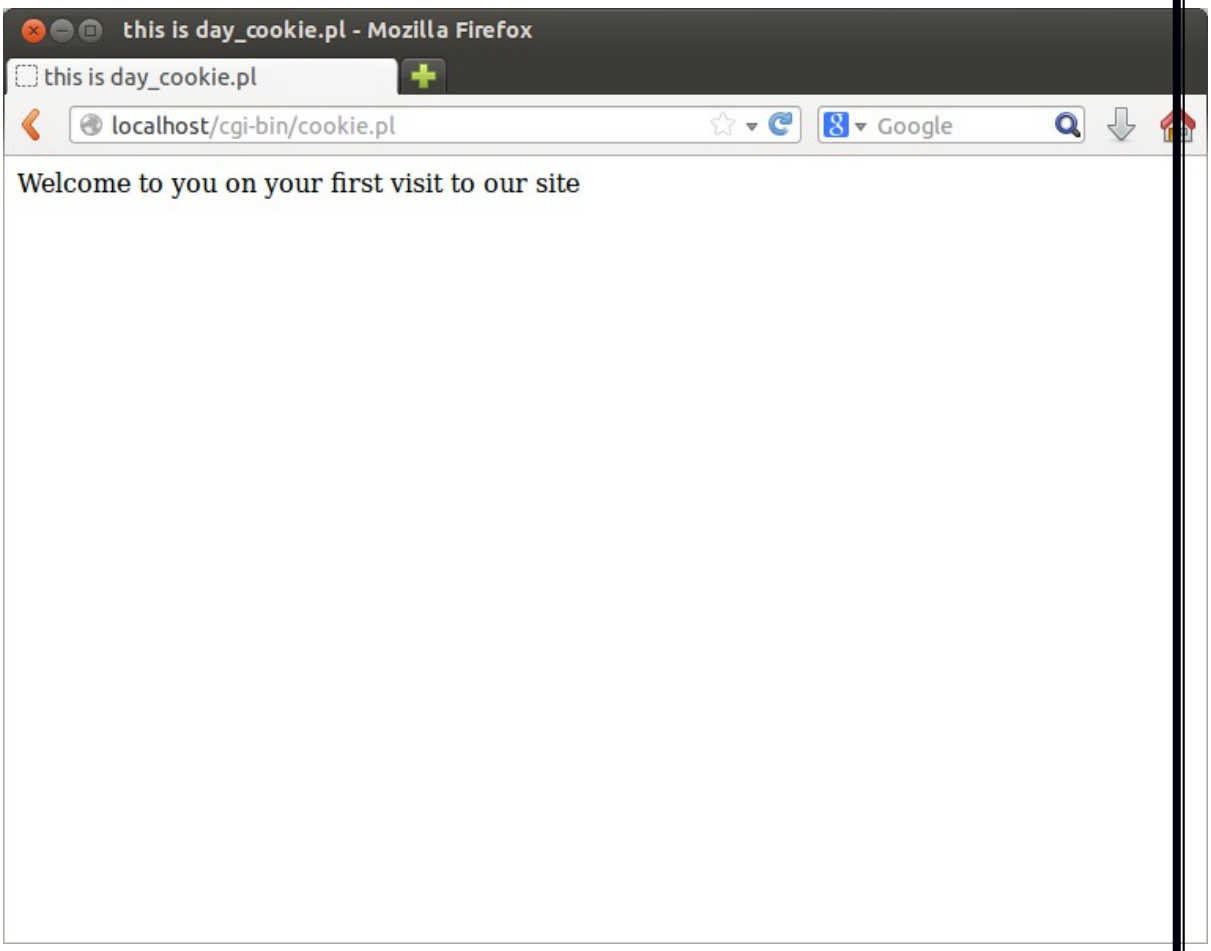
```
#!/usr/bin/perl

#day_cookie.pl

use CGI":standard";

@lastday=cookie('lasttime');

$day_of_week=(qw(sunday monday tuesday wednesday thursday
friday saturday))[ (localtime) [6] ];

$month=(qw(January february march april may june july august
september october novemebr december))[ (localtime) [4] ];

$day_of_month=(localtime) [3];

@day_stuff=($day_of_week.$day_of_month,$month);

$day_cookie=cookie(-name=>'last_time',-value=>\@day_stuff,-expires
=>'+3d');

print header(-cookie=>$day_cookie);

print start_html('this is day_cookie.pl');

if(scalar(@last_day)==0)

{

print "Welcome to you on your first visit to our site<br/>";

}

else

{

($day_of_week,$day_of_month,$month)=@last_day;

print "Welcome back!<br/>","your last visit was on","$day_of_week,
$month,$day_of_month<br/>";

}

print end_html();
```

cookie.html

```
<html>
<head>
<title>Cookie</title>
</head>
<body>
<form action="http://localhost/cgi-bin/cookie.pl" mehtod="get">
<center><input type="submit" value="lastlogin"></center>
</form>
</body>
</html>
```

OUTPUT:


Cookie - Mozilla Firefox
Cookie
file:///var/www/cookie.html
Google
lastlogin


this is day_cookie.pl - Mozilla Firefox
this is day_cookie.pl
localhost/cgi-bin/cookie.pl
Google
Welcome to you on your first visit to our site