

frame_a.htm page source code:

```
<!DOCTYPE html>
<html>
  <head><title>a_html page</title></head>
<body bgcolor="skyblue">
<p>Am a.html page</p>
</body>
</html>
```

frame_b.htm page source code:

```
<!DOCTYPE html>
<html>
  <head><title>a_html page</title></head>
<body bgcolor="red">
<p>Am b.html page</p>
</body>
</html>
```

frame_c.htm page source code:

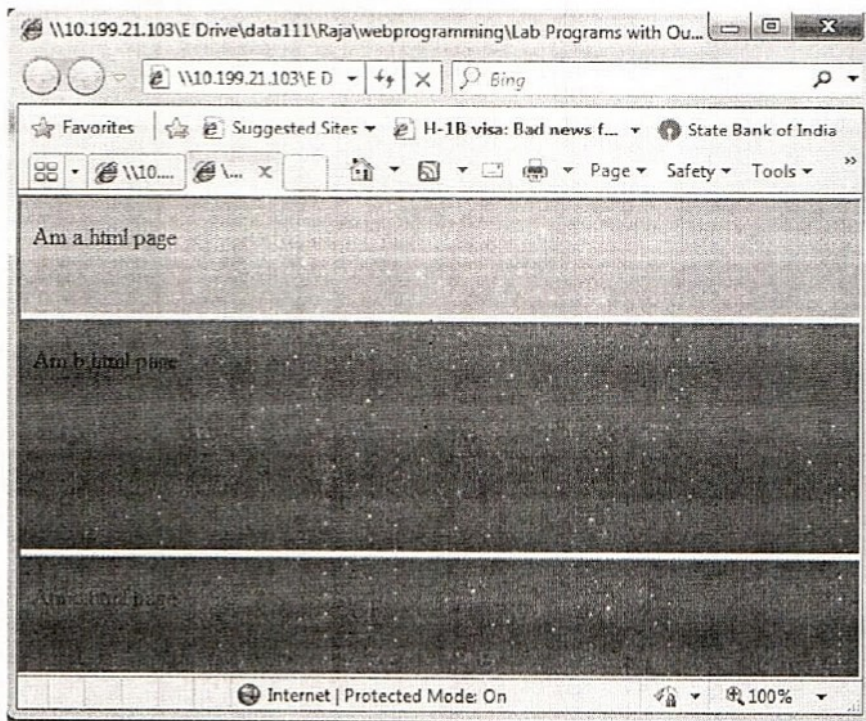
```
<!DOCTYPE html>
<html>
  <head><title>a_html page</title></head>
<body bgcolor="green">
<p>Am c.html page</p>
</body>
</html>
```

Source code for Frames:

HorizontalFrames.html

```
<!DOCTYPE html>
<html>
<frameset cols="25%,*,25%">
  <frame src="frame_a.htm">
  <frame src="frame_b.htm">
  <frame src="frame_c.htm">
</frameset>
</html>
```

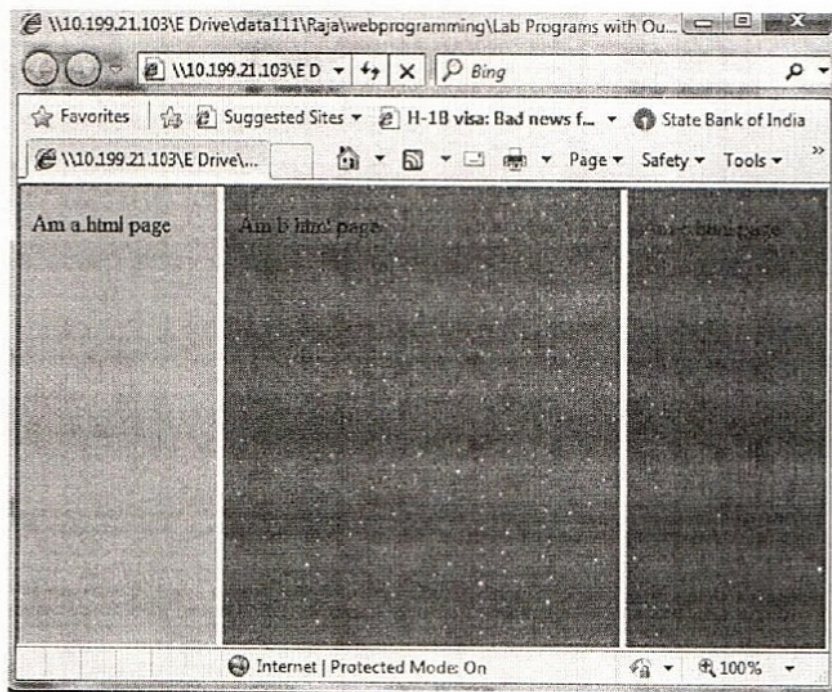
Screen:



VerticalFrames.html

```
<!DOCTYPE html>
<html>
<frameset cols="25%,*,25%">
  <frame src="frame_a.htm">
  <frame src="frame_b.htm">
  <frame src="frame_c.htm">
</frameset>
</html>
```

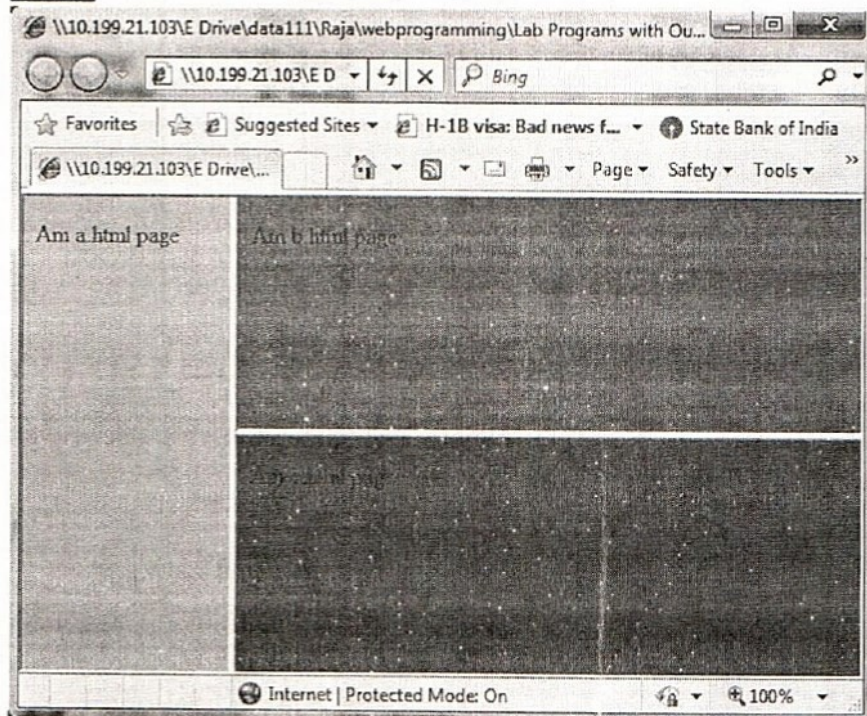
Screen:



MixedFrames.html

```
<!DOCTYPE html>
<html>
<frameset cols="25%,*">
  <frame src="frame_a.htm">
<frameset rows="*,*">
  <frame src="frame_b.htm">
  <frame src="frame_c.htm">
</frameset>
</frameset>
</html>
```

Screen



Source Code

Simpletable.html

```
<?xml version = "1.0" encoding = "utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<!-- Fig. 4.10: table1.html -->
<!-- Creating a basic table. -->
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
<title>A simple XHTML table</title>
</head>
<body>
<!-- the <table> tag opens a table -->
<table border = "1" width = "40%"
summary = "This table provides information about the
price of fruit">
<!-- the <caption> tag summarizes the table's -->
<!-- contents (this helps the visually impaired) -->
<caption><strong>Price of Fruit</strong></caption>

<!-- the <thead> section appears first in the table -->
<!-- it formats the table header area -->
<thead>
<tr> <!-- <tr> inserts a table row -->
<th>Fruit</th> <!-- insert a heading cell -->
<th>Price</th>
</tr>
</thead>
<!-- the <tfoot> section appears last in the table -->
<!-- it formats the table footer -->
<tfoot>
<tr>
<th>Total</th>
<th>$3.75</th>
</tr>
</tfoot>
<!-- all table content is enclosed -->
<!-- within the <tbody> -->
<!-- insert a data cell -->
<tbody>
<tr>
<td>Apple</td>
<td>$0.25</td>
</tr>
<tr>
<td>Orange</td>
<td>$0.50</td>
</tr>
```

```
<tr>
<td>Banana</td>
<td>$1.00</td>
</tr>
<tr>
<td>Pineapple</td>
<td>$2.00</td>
</tr>
</tbody>
</table>
</body>
</html>
```

Screen:

The screenshot shows a web browser window titled "A simple XHTML table - Windows Internet Explorer". The address bar shows "C:\examples\ch04\table1.html". The browser displays a table with the following content:

Fruit	Price
Apple	\$0.25
Orange	\$0.50
Banana	\$1.00
Pineapple	\$2.00
Total	\$3.75

Labels on the left side of the image point to specific parts of the table:

- Table caption: Points to the title "Price of Fruit".
- Table header: Points to the first row of the table (Fruit, Price).
- Table body: Points to the rows containing fruit names and prices (Apple, Orange, Banana, Pineapple).
- Table footer: Points to the final row of the table (Total, \$3.75).
- Table border: Points to the border of the table.

Complextable.html

```
<?xml version = "1.0" encoding = "utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<!-- Fig. 4.11: table2.html -->
<!-- Complex XHTML table. -->
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
<title>Tables</title>
</head>

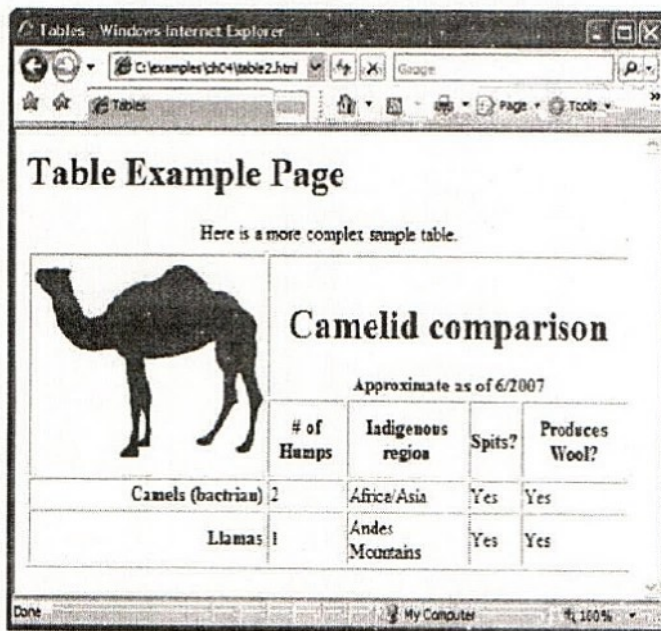
<body>
<h1>Table Example Page</h1>

<table border = "1">
<caption>Here is a more complex sample table.</caption>

<thead>
<!-- rowspans and colspans merge the specified -->
<!-- number of cells vertically or horizontally -->
<tr>
<!-- merge two rows -->
<th rowspan = "2">
<img src = "camel.gif" width = "205" height =
"167" alt = "Picture of a camel" />
</th>
<!-- merge four columns -->
</tr>
<tr>
<th># of Humps</th>
<th>Indigenous region</th>
<th>Spits?</th>
<th>Produces Wool?</th>
</tr>
</thead>
<tbody>
<tr>
<th>Camels (bactrian)</th>
<td>2</td>
<td>Africa/Asia</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<th>Llamas</th>
<td>1</td>
<td>Andes Mountains</td>
<td>Yes</td>
```

```
<td>Yes</td>
</tr>
</tbody>
</table>
</body>
</html>
```

Screen:

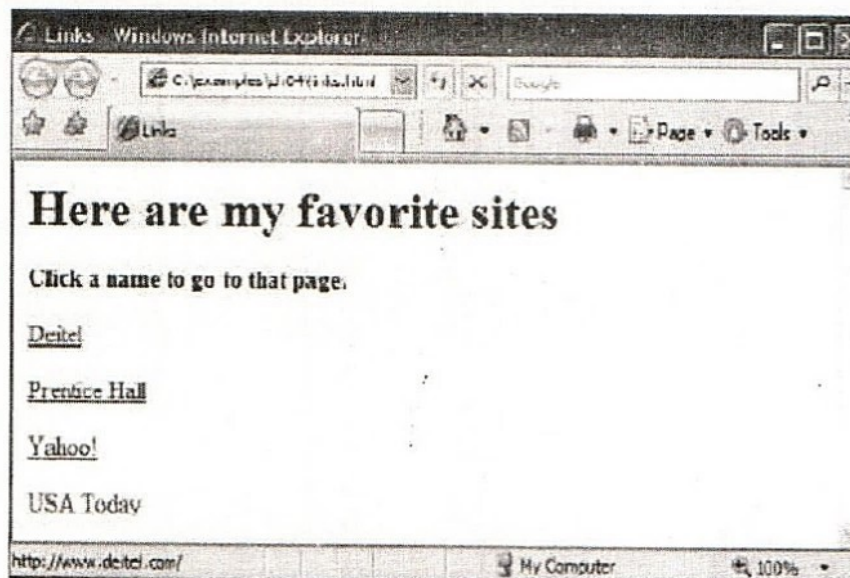


Source code:

External.html

```
<?xml version = "1.0" encoding = "utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<!-- Linking to other web pages. -->
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
<title>Links</title>
</head>
<body>
<h1>Here are my favorite sites</h1>
<p><strong>Click a name to go to that page.</strong></p>
<!-- Create four text hyperlinks -->
<p><a href = "http://www.deitel.com">Deitel</a></p>
<p><a href = "http://www.prenhall.com">Prentice Hall</a></p>
<p><a href = "http://www.yahoo.com">Yahoo!</a></p>
<p><a href = "http://www.usatoday.com">USA Today</a></p>
</body>
</html>
```

Screen:



Internal Linking

Source code:

InternalLinking.html

```
<?xml version = "1.0" encoding = "utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<!-- Fig. 4.14: internal.html -->
<!-- Internal hyperlinks to make pages more navigable. -->
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
<title>Internal Links</title>
</head>

<body>
<!-- id attribute creates an internal hyperlink destination -->
<h1 id = "features">The Best Features of the Internet</h1>

<!-- an internal link's address is "#id" -->
<p><a href = "#bugs">Go to <em>Favorite Bugs</em></a></p>

<ul>
<li>You can meet people from countries
around the world.</li>
<li>You have access to new media as it becomes public:
<ul>
<li>New games</li>
<li>New applications
<ul>
<li>For Business</li>
<li>For Pleasure</li>
</ul>
</li>
<li>Around the clock news</li>
<li>Search Engines</li>
<li>Shopping</li>
<li>Programming
<ul>
<li>XHTML</li>
<li>Java</li>
<li>Dynamic HTML</li>
<li>Scripts</li>
<li>New languages</li>
</ul>
</li>

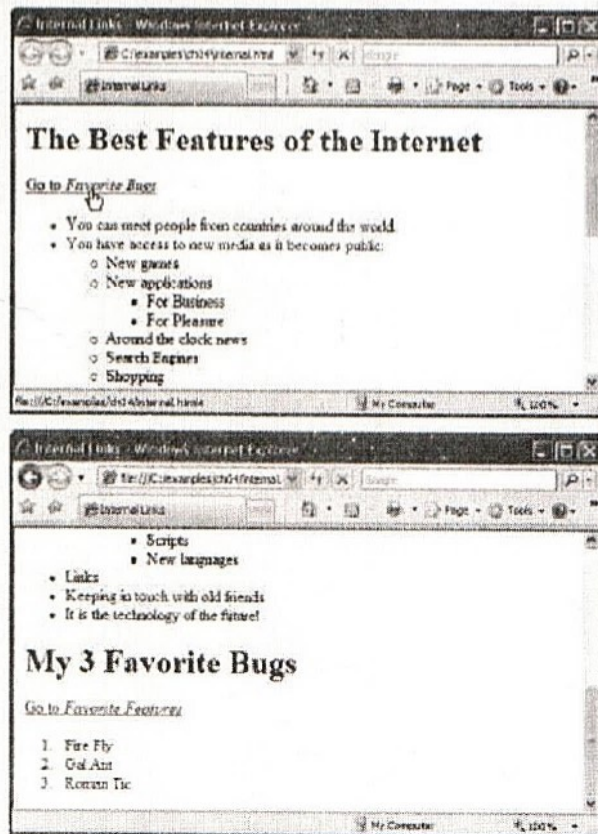
```

```
</li>
</ul>
</li>
```

```
<li>Links</li>
<li>Keeping in touch with old friends</li>
<li>It is the technology of the future!</li>
</ul>
```

```
<!-- id attribute creates an internal hyperlink destination -->
<h1 id = "bugs">My 3 Favorite Bugs</h1>
<p>
<!-- internal hyperlink to features -->
<a href = "#features">Go to <em>Favorite Features</em></a>
</p>
<ol>
<li>Fire Fly</li>
<li>Gal Ant</li>
<li>Roman Tic</li>
</ol>
</body>
</html>
```

Screen:



3.2. Images as Hyperlink

Source code:

ImageAsHyperLink.html

```
<?xml version = "1.0" encoding = "utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<!-- Fig. 4.6: nav.html -->
<!-- Images as link anchors, -->
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
<title>Navigation Bar</title>
</head>

<body>

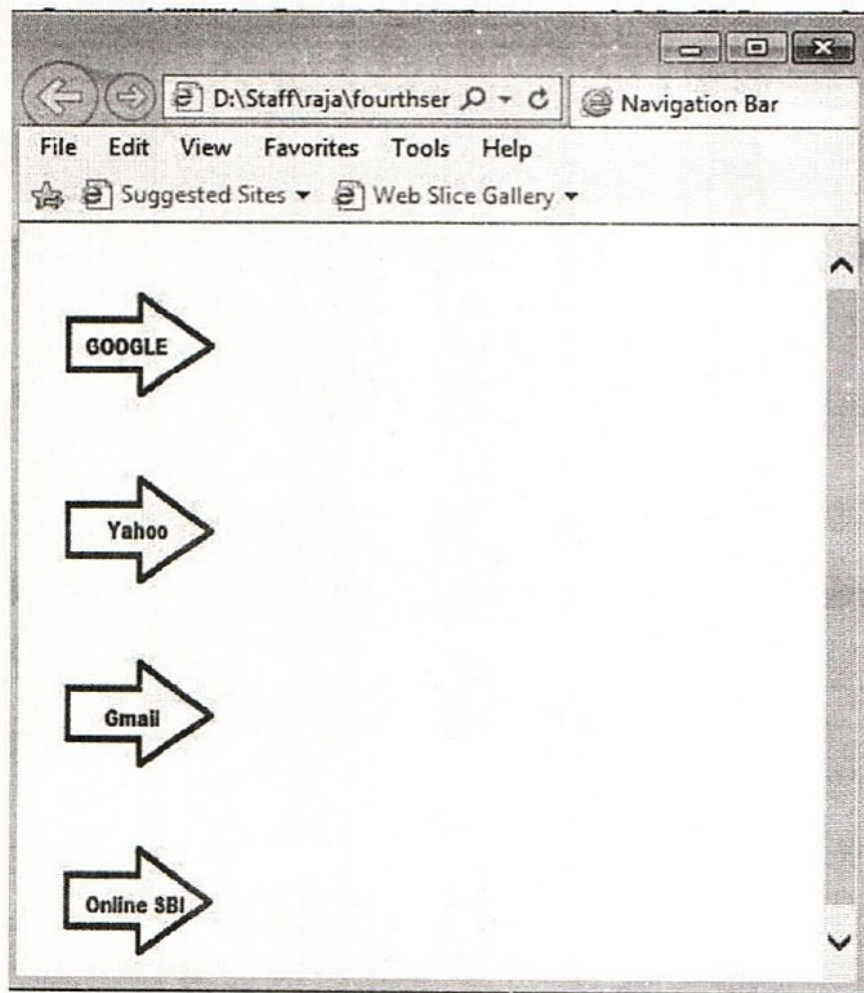
<a href = "http://www.google.com">
<img src = "google.jpg" width = "100"
height = "100" alt = "Google Page" />
</a><br />
<a href = "http://www.yahoo.com">
<img src = "yahoo.jpg" width = "100"
height = "100" alt = "Yahoo Example Page" />
</a><br />

<a href = "http://www.gmail.com">
<img src = "gmail.jpg" width = "100"
height = "100" alt = "Gmail Page" />
</a><br />

<a href = "http://www.onlinesbi.com">
<img src = "onlinesbi.jpg" width = "100"
height = "100" alt = "Online SBI Page" />
</a><br />

</body>
</html>
```

Screen:



Source Code:

RegistrationFrom.html

```
<?xml version = "1.0" encoding = "utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<!-- Fig. 4.1: main.html -->
<!-- First XHTML example. -->
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
    <title>Registration Form</title>
    <link rel="stylesheet" type="text/css" href="reg.css" />
</head>
<body>

    <form>
        <div>
            <h1>Registration Form</h1>
            <p>Username *: <input type="text" name="username"
placeholder="Enter Username"/></p>
            <p>Password *: <input type="password" name="pwd"
placeholder="Enter Password"/></p>
            <p>Surname *: <input type="text" name="surname"
placeholder="Enter Surname.."/></p>
            <p>Other Names *: <input type="text" name="names"
placeholder="Enter Othernames"/></p>
            <p>Date of Birth *: <input type="text" name="dob"
placeholder="Date of birth in dd/mm/yy format"/></p>
            <p>Email *: <input type="text" name="email" placeholder="Enteryour
email. ..."/>Ex:abc@gmail.com</p>
            <p>Telephone: <input type="text" name="tel" placeholder="Entertelephone
number"/>Ex: 08579 - 7854555</p>
            <p>Address *: <textarea name="address" value="Enter address
here... "></textarea> </p>
            <p>Post Code *: <input type="text" name="ptc" placeholder="Enteryour
pin code here"/>Ex: Palamaner: 517408</p>

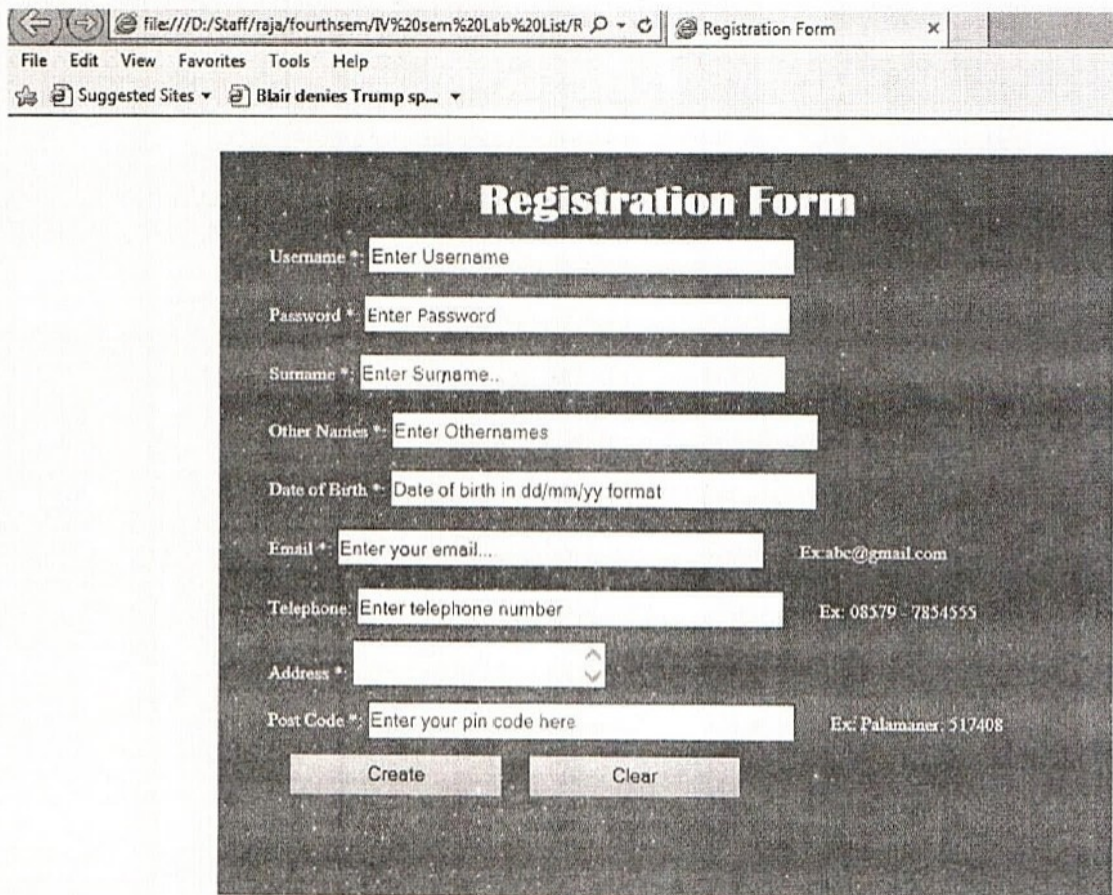
            <p><input type="submit" value="Create" />
            <input type="reset" value="Clear" /></p>
        </div>
    </form>

    <p style="color:rgb(0,0,0)">Note: Please make sure your details are correct before submittingform and
that all fields marked with * are completed!.</p>
</body>
</html>
```

reg.css

```
*
{
padding:0px;
margin:0px;
}
div
{
height:500px;
width:600px;
background-color:#8C8CB8; margin:25px
25px 25px 150px;padding:15px;
}
input[type="text"],input[type="password"]
{
margin:5px 25px 5px 0px;
height:25px; width:300px;
padding:0px;
}
p
{
margin-left:20px;
margin-top:5px;
margin-right:5px;
color:white;
font-size:13px;
}
input[type="submit"],input[type="reset"]
{
height:30px;
width:150px;
margin-left:15px;
}
input:focus
{
background-color: #FFFF99;
color:#668CCC;
}
h1
{
text-align:center;
color:white;
font-family:Britannic Bold;
}
```

Screen:



The screenshot shows a web browser window with the address bar displaying a file path: `file:///D:/Staff/raja/fourthsem/TV%20sem%20Lab%20List/R`. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The status bar shows 'Suggested Sites' and a link to 'Blair denies Trump sp...'. The main content area features a 'Registration Form' with the following fields and examples:

- Username ***: Enter Username
- Password ***: Enter Password
- Surname ***: Enter Surname..
- Other Names ***: Enter Othernames
- Date of Birth ***: Date of birth in dd/mm/yy format
- Email ***: Enter your email... (Example: `Ex: abc@gmail.com`)
- Telephone**: Enter telephone number (Example: `Ex: 08579 - 7854555`)
- Address ***: (Empty dropdown menu)
- Post Code ***: Enter your pin code here (Example: `Ex: Palamaner, 517408`)

At the bottom of the form are two buttons: 'Create' and 'Clear'.

Note: Please make sure your details are correct before submitting form and that all fields marked with * are completed!.

Source Code:

HorizontalMenu.html

```
<?xml version = "1.0" encoding = "utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<!-- Fig. 4.6: nav.html -->
<!-- Images as link anchors. -->
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
<title>Horizontal Menu</title>
<link rel="stylesheet" type="text/css" href="hmenu.css" />
</head>

<body>

<ul class="menu">

    <li><a href="#">About US</a></li>
    <li><a href="#">Courses Offered</a></li>
    <li><a href="#">Faculty Profile</a></li>
    <li><a href="#">Contact US</a></li>

</ul>

</body>
</html>
```

hmenu.css

```
*

{
padding:0px;
margin:auto;
}

ul
{
    height:55px;
    width:800px;
    list-style-type:none;
    background-color:rgba(110,230,15,0.4);
    margin:150px 55px 15px 400px;
}
li
```

```

{
    height:55px;
    width:150px;
    float:left;
    line-height:55px; margin:0px
    15px 0px 20px;text-
    align:center;
}
.menu a
{
text-decoration:none;
font-size:20px;
line-height:55px;
}
.menu a:hover
{
    color:white;
    line-height:55px;
}
.menu li:hover
{
    background-color:rgba(112,23,253,0.4);
    height:55px;
    width:150px; text-
    align:center;
}

```

Screen:



Vertical Menu

Source Code:

```
<?xml version = "1.0" encoding = "utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<!-- Fig. 4.6: nav.html -->
<!-- Images as link anchors. -->
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
<title>Horizontal Menu</title>
<link rel="stylesheet" type="text/css" href="vmenu.css" />
</head>

<body>

<ul class="menu">

    <li><a href="#">About US</a></li>
    <li><a href="#">Courses Offered</a></li>
    <li><a href="#">Faculty Profile</a></li>
    <li><a href="#">Contact US</a></li>

</ul>

</body>
</html>
```

vmenu.css

```
*
{
padding:0px;
margin:auto;
}

ul
{
    height:230px;
    width:150px;
    list-style-type:none;
    background-color:rgba(110,230,15,0.4);
    margin:150px 55px 15px 400px;
}
li
{
    height:55px;
    width:150px; line-
    height:55px;
```

```
margin:0px 15px 0px 0px;  
text-align:center;
```

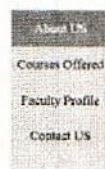
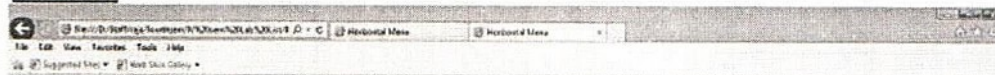
```
}  
.menu a  
{
```

```
text-decoration:none;  
font-size:20px;  
line-height:55px;  
}
```

```
.menu a:hover  
{  
    color:white;  
    line-height:55px;
```

```
}  
.menu li:hover  
{  
    background-color:rgba(112,23,253,0.4);  
    height:55px;  
    width:150px; text-  
    align:center;  
}
```

Screen:



Drop-Down Menu

Source Code:

```
<?xml version = "1.0" encoding = "utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<!-- Fig. 4.6: nav.html -->
<!-- Images as link anchors. -->
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
<title>Drop Down Menu</title>
<link rel="stylesheet" type="text/css" href="ddmenu.css" />
</head>

<body>

<ul class="menu">
    <li><a href="#">About US</a></li>
    <li><a href="#">Courses Offered</a>
        <ul>

            </ul>
    </li>

    <li><a href="#">Faculty Profile</a></li>
    <li><a href="#">Contact US</a></li>
</ul>

</body>
</html>
```

ddmenu.css

```
*
{
    padding:0px;
    margin:auto;
}
.menu
{
    margin-left:350px;
    margin-top:250px;
}
ul
{
    }
```

```

list-style-type:none;
background-color:rgba(45,89,112,0.7);

}
ul li
{
height:55px;
width:150px;
background-color:rgba(112,23,45,0.4);line-
height:55px;
text-align:center;
float:left;
margin-right:1px;
box-shadow:3px 2px 3px red;
}

ul ul
{
display:none;
}
ul li:hover >ul
{
display:block;
}
ul li:hover
{
background-color:rgba(118,20,120,0.5);
}
a
{
text-decoration:none;
}
a:hover
{
color:white
}

```

Screen:

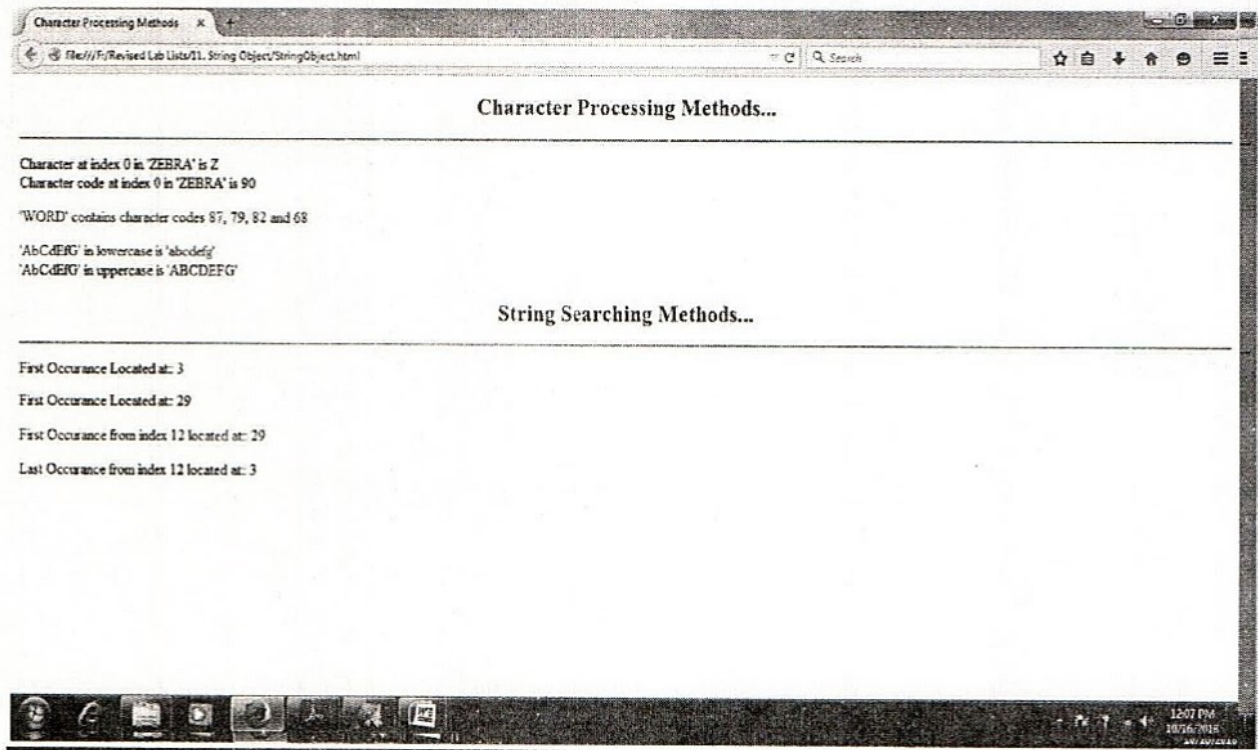


Source Code:

StringObject.html

```
<?xml version = "1.0" encoding = "utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<!-- Fig. 11.4: CharacterProcessing.html -->
<!-- String methods charAt, charCodeAt, fromCharCode, toLowerCase and toUpperCase. -->
<!-- String searching with indexOf and lastIndexOf. -->
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
<title>Character Processing Methods</title>
<script type = "text/javascript">
<!--
document.writeln("<h2 style='text-align:center;color:blue;'>Character ProcessingMethods...</h2><hr>");
var s = "ZEBRA"; var
s2 = "AbCdEfG";
document.writeln( "<p>Character at index 0 in '" + s + "' is " + s.charAt( 0 ) );
document.writeln( "<br />Character code at index 0 in '" + s + "' is " + s.charCodeAt( 0 ) + "</p>"
);
document.writeln( "<p>" + String.fromCharCode( 87, 79, 82, 68 ) + " contains character codes
87, 79, 82 and 68</p>" )
document.writeln( "<p>" + s2 + " in lowercase is '" + s2.toLowerCase() + "'" );
document.writeln( "<br />" + s2 + " in uppercase is '" + s2.toUpperCase() + "'</p>" );
//String searching with indexOf and lastIndexOf....
document.writeln("<h2 style='text-align:center;color:blue;'>String SearchingMethods.
</h2><hr>");
var letters = "abcdefghijklmnopqrstuvwxyzabcdefghijklmnopqrstu";
var inputVal=prompt("Enter searching string here for String Searching Methods. .","abc");
document.writeln("<p>First Occurance Located at:: "+letters.indexOf(inputVal)+"</p>");
document.writeln("<p>First Occurance Located at:: "+letters.lastIndexOf(inputVal)+"</p>");
document.writeln("<p>First Occurance from index 12 located at::
"+letters.indexOf(inputVal,12)+"</p>");
document.writeln("<p>Last Occurance from index 12 located at::
"+letters.lastIndexOf(inputVal,12)+"</p>");
// -->
</script>
</head><body></body>
</html>
```

Screen



Source Code:

SortingMechanism.html

```
<?xml version = "1.0" encoding = "utf-8"?>

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

<html xmlns = "http://www.w3.org/1999/xhtml">
<head><title>Using the Window Object</title>
<script type = "text/javascript">
<!--
var array=[-1,3,4,5,6,2,10];

document.writeln("<h3>Array of elements are::</h3>"); for(var i=0;i<array.length;i++)
document.write(array[i]+"\\t");

var choice=parseInt(prompt("Enter your choice \\n 1. Built In Sorting Technique \\n 2. Normal
Technique "));
switch(choice)
{
case 1:
array.sort( compareIntegers );
document.writeln("<br /><h3>After Sorting using Built - In
Sorting Technique \\nArray of elements are::</h3><br />");
for(var i=0;i<array.length;i++) document.write(array[i]+"\\t");
break;
case 2:      var i,j;
for(i=0;i<array.length-1;i++) for(j=i+1;j<array.length;j++)

if(array[i]>array[j])
{
```

```
var temp=array[i]; array[i]=array[j]; array[j]=temp;
}
document.writeln("<h3>After sorting using Normal Sorting technique elements are::</h3>");
for(var i=0;i<array.length;i++) document.write(array[i]+"\\t");
break;
default: window.alert("Invalid Choice");
}
// comparison function for use with sort function compareIntegers( value1, value2 )
{
return parseInt( value1 ) - parseInt( value2 );
} // end function compareIntegers
//-->
</script>
</head>
<body>
</body>
</html>
```

Screen

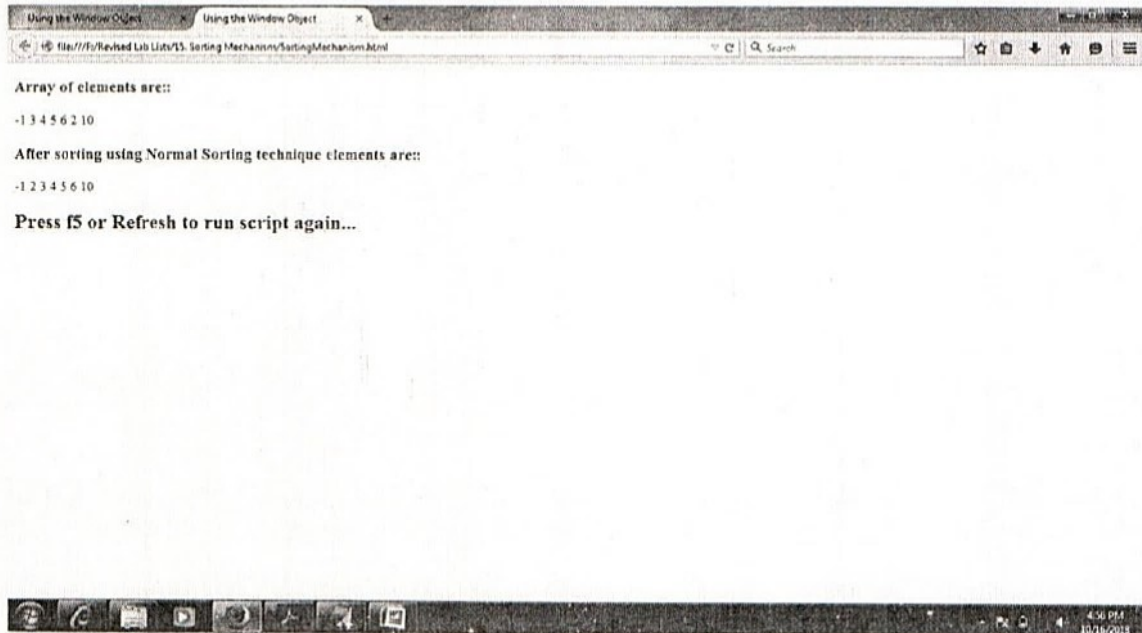
Select your option



When you press 2 Normal Sorting Technique will perform



When you press OK below Screen will appear



Source Code:

Quiz.html

```
<?xml version = "1.0" encoding = "utf-8"?>
```

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

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

```
<head>
```

```
<link rel="stylesheet" type="text/css" href="style.css" />
```

```
<script src="checkAnswer.js"></script>
```

```
</head>
```

```
<body>
```

```
<div id="quiz">
```

```
<div id="title">
```

```
<h1>Simple JavaScript Quiz</h1>
```

```
<p>Test Your Knowledge in <span>Java Script Fundaments</span></p>
```

```
<p
```

```
id="line">.....
....
```

```
.....</p>
```

```
</div>
```

```
<form name="formQuiz" onsubmit="return checkAnswer();">
```

```
<h3>1. In which HTML element do we put in JavaScript code</b></h3>
```

```
<p><input type="radio" id="q1a" name="q1" value="a" />a. &lt; js &gt;<br />
```

```
<input type="radio" id="q1b" name="q1" value="b" />b. &lt; script &gt;<br />
```

```
<input type="radio" id="q1c" name="q1" value="c" />c. &lt; body &gt;<br />
```

```
<input type="radio" id="q1d" name="q1" value="d" />d. &lt; link &gt;</p>
```

```
<h3>2. Which attribute is used to reference an external JavaScript file</b></h3>
```

<p><input type="radio" id="q2a" name="q2" value="a" />a. < src >

<input type="radio" id="q2b" name="q2" value="b" />b. < rel >

<input type="radio" id="q3c" name="q2" value="c" />c. < type >

<input type="radio" id="q2d" name="q2" value="d" />d. < href ></p>

<h3>3. JavaScript is directly related to the "Java" programming language</h3>

<p><input type="radio" id="q3a" name="q3" value="a" />a. Yes

<input type="radio" id="q3b" name="q3" value="b" />b. No</p>

<h3>4. How would you write "Hello" in an alert box?</h3>

<p><input type="radio" id="q4a" name="q4" value="a" />a. msg("Hello");

<input type="radio" id="q4b" name="q4" value="b" />b. alertBox("Hello");

<input type="radio" id="q4c" name="q4" value="c" />c. document.write("Hello");

<input type="radio" id="q4d" name="q4" value="d" />d. alert("Hello");</p>

<h3>5. var x=10,y=-5,z=++x*y-- than what is z value?</h3>

<p><input type="radio" id="q5a" name="q5" value="a" />a. -55

<input type="radio" id="q5b" name="q5" value="b" />b. -60

<input type="radio" id="q5c" name="q5" value="c" />c. 50

<input type="radio" id="q5d" name="q5" value="d" />d. 60</p>

<input type="submit" value="Submit Answers" />

</form>

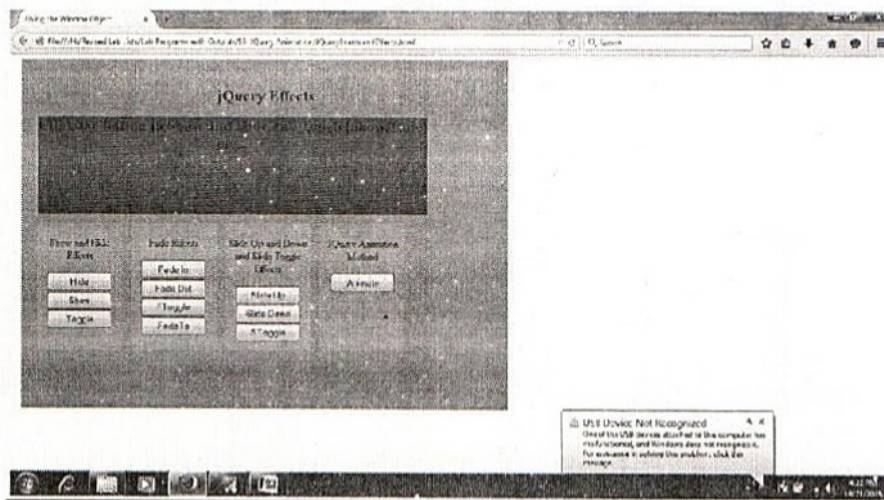
<h3 id="bottom">Copyright © 2018, All Rights Reserved</h3>

</div>

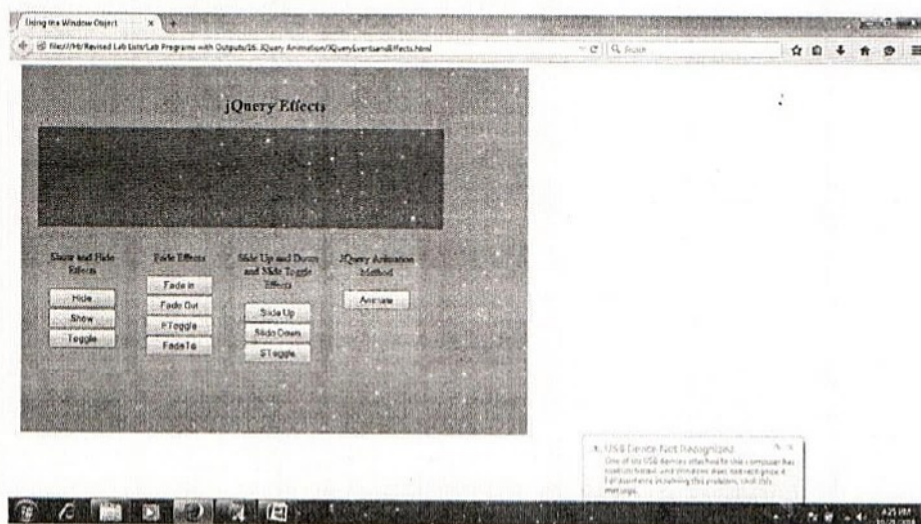
</body>

</html>

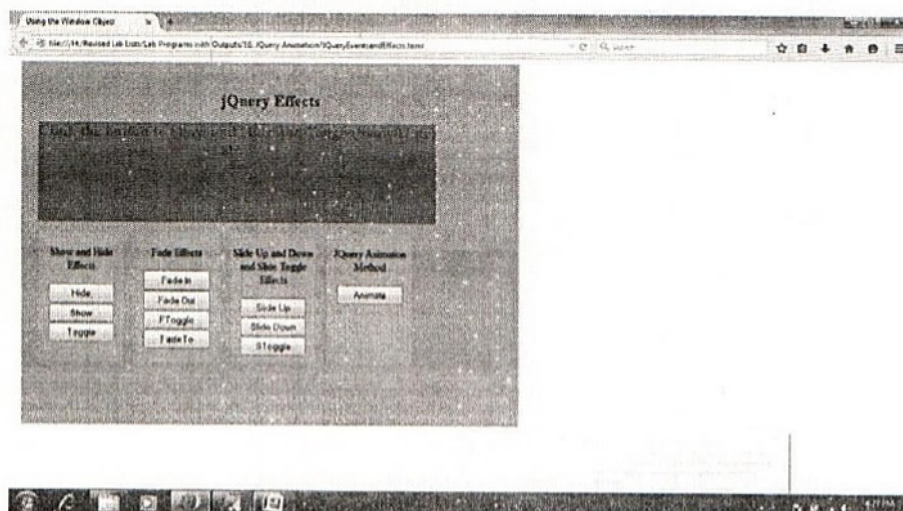
Screen



When you press Hide Button below Screen will appear



When you press OK below Screen will appear



Source Code:

MathObject.html

```
<?xml version = "1.0" encoding = "utf-8"?>

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

<!-- Fig. 11.13: window.html -->

<!-- Using the window object to create and modify child windows. -->

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

<head><title>Using the Window Object</title>

<script>

<!--

document.writeln("<h1>Implementation of Math Object and its Methods. ...</h1>");
document.writeln ("<h2>Few Examples are here.. </h2>"); document.writeln("<table
align=\"left\" border=\"2\"

style=\"float:left\"><tr><th>Method</th><th>Description</th><th>Examples</th></tr><tr><t
d

>abs( x )</td><td>absolute value of x</td><td>abs( 0.0 ) is 0.0<br/>abs(-5.6 ) is
5.6</td></tr><tr><td>ceil( x )</td><td>rounds x to the smallestinteger not less than
x</td><td>ceil( 9.2 ) is 10.0<br/>ceil( -9.8 ) is -9.0</td></tr><tr><td>exp( x
)</td><td>exponential method e<sup>x</sup></td><td>exp( 1.0 ) is 2.71828<br/>exp( 2.0 ) is
7.38906</td></tr><tr><td>floor( x ) </td><td>rounds x to the largestinteger not greater than
x</td><td>floor( 9.2 ) is 9.0<br/>floor( -9.8 ) is -10.0</td></tr><tr><td>max( x, y )
</td><td>larger value of x and y </td><td>max( 2.3, 12.7 ) is 12.7<br />max( -2.3, -12.7 ) is -
2.3</td></tr><tr><td>min( x, y )</td><td>smaller value of x and y </td><td>min( 2.3, 12.7 ) is
2.3<br/>min( -2.3, -12.7 ) is -12.7</td></tr><tr><td>pow( x, y )</td><td>x raised to power y
(xy)</td><td>pow( 2.0, 7.0 ) is 128.0<br />pow( 9.0, .5 ) is 3.0</td></tr><tr><td>round( x
)</td><td>rounds x to the closestinteger</td><td>round( 9.75 ) is 10<br />round( 9.25 ) is
9</td></tr><tr><td>sin( x )</td><td>trigonometric sine of x(x in radians)</td><td>sin( 0.0 ) is
0.0</td></tr><tr><td>sqrt( x )</td><td>square root of x </td><td>sqrt( 900.0 ) is 30.0<br
/>sqrt( 9.0 ) is 3.0</td></tr><tr><td>tan( x ) </td><td>trigonometric tangent of x(x in
radians)</td><td>tan( 0.0 ) is 0.0</td></tr></table>");

document.writeln("<h2 style=\"float:left;font-size:45px;color:blue;margin-top:290px;\">Click
f5 or Refresh to run script again. </h2>");
```

```

var choice=parseInt(prompt("Menu\n 1. Abs(x) \n 2. ceil( x ) \n 3. exp( x ) \n 4. floor( x ) \n 5.
max( x, y ) \n 6. min( x, y ) \n 7. pow( x, y ) \n 8. round( x ) \n 9. sqrt( x ) \n Enter Your Choice..
"));
switch(choice)
{
case 1: var num=parseInt(prompt("Enter your number","0")); window.alert("Absolute of given
number is::"+Math.abs(num)); break;

case 2: var num=parseInt(prompt("Enter your number","0")); window.alert("Ceil of given
number is::"+Math.ceil(num)); break;


case 3: var num=parseInt(prompt("Enter your number","0")); window.alert("Exponential of
given number is:: "+Math.exp(num)); break;

case 4: var num=parseInt(prompt("Enter your number","0")); window.alert("Floor of given
number is::"+Math.floor(num)); break;

case 5: var num=parseInt(prompt("Enter your number1","0"));
var num1=parseInt(prompt("Enter your number2","0")); window.alert("Maximum Number
is"+Math.max(num,num1)); break;

case 6: var num=parseInt(prompt("Enter your number1","0"));
var num1=parseInt(prompt("Enter your number2","0")); window.alert("Minimum number
is::"+Math.min(num,num1)); break;

case 7: var num=parseInt(prompt("Enter your number","0"));
var power=parseInt(prompt("Enter your power","0")); window.alert("Given"+num+"power
of"+power+"is::"+Math.pow(num,power));
break;

case 8: var num=parseInt(prompt("Enter your number","0")); window.alert("Round of
Number is"+Math.round(num)); break;

case 9: var num=parseInt(prompt("Enter your number","0"));
window.alert("Sqrt of given number"+num+"is"+Math.sqrt(num)); break;

default: window.alert("Invalid Choice");
}

//-->

```

</script>

</head>

<body>

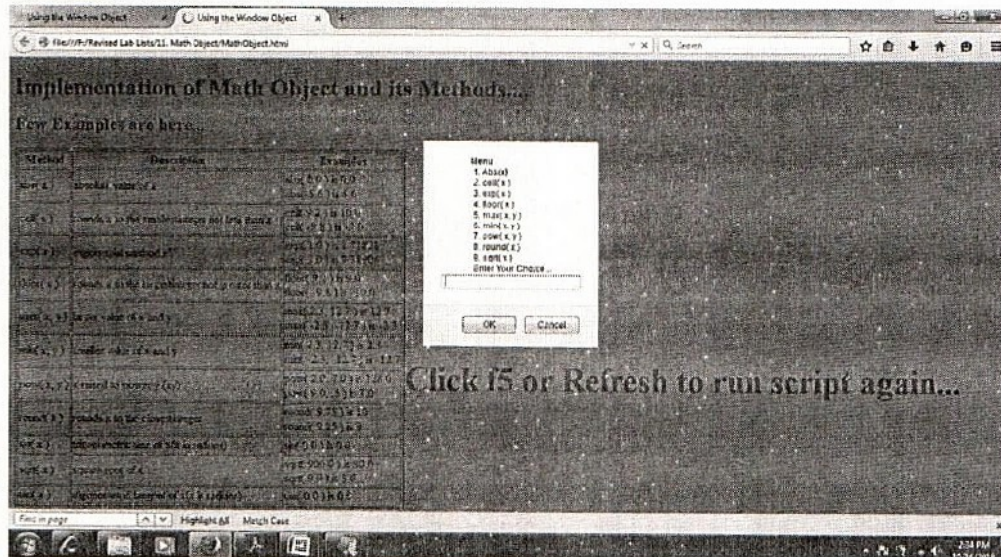
<script>

</script>

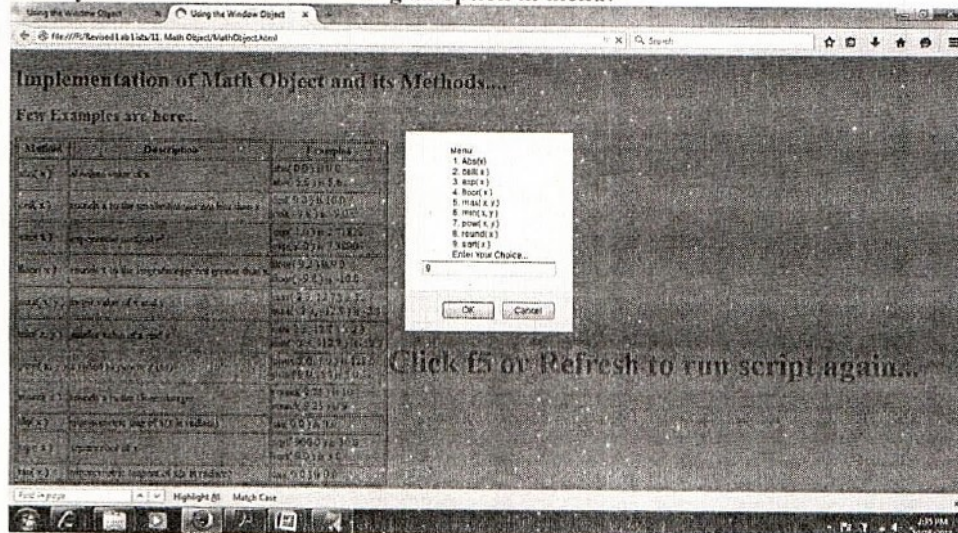
</body>

</html>

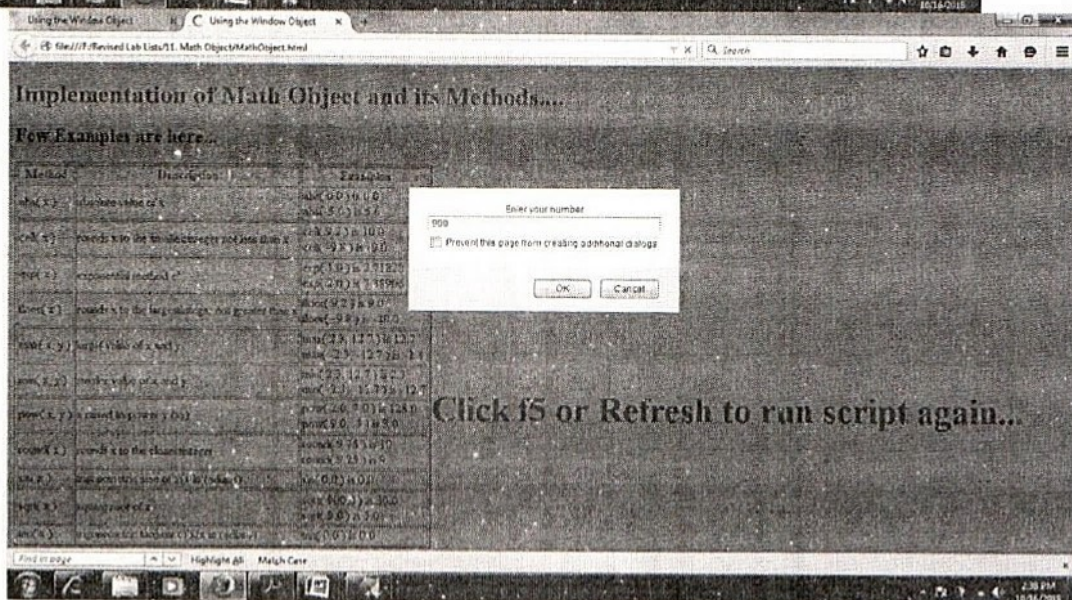
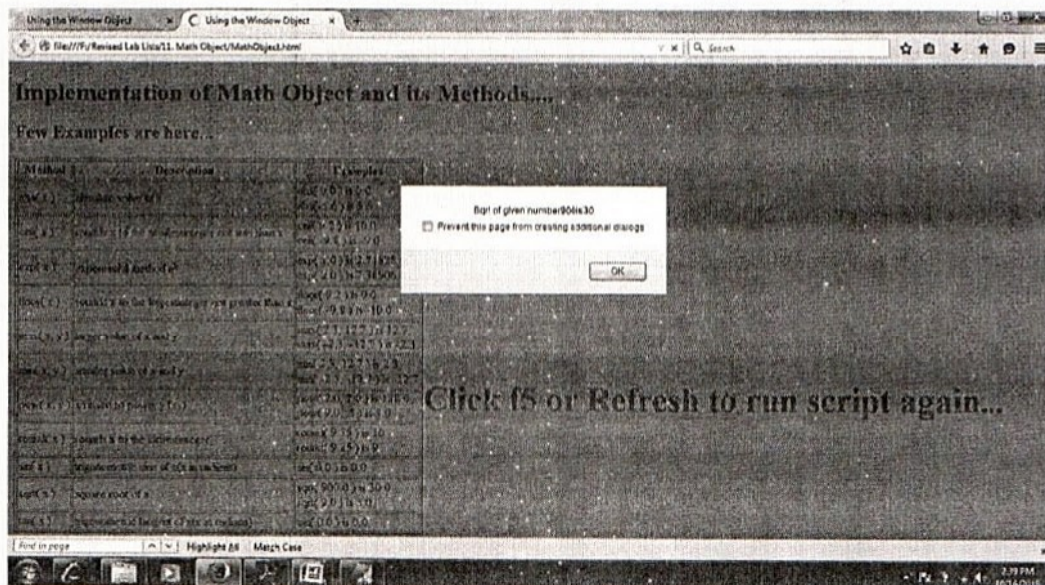
Screen:



Enter your choice as number among all option in menu:



Entered 9 as input for finding sqrt of given number
After Enter your choice it will show prompt window for an input



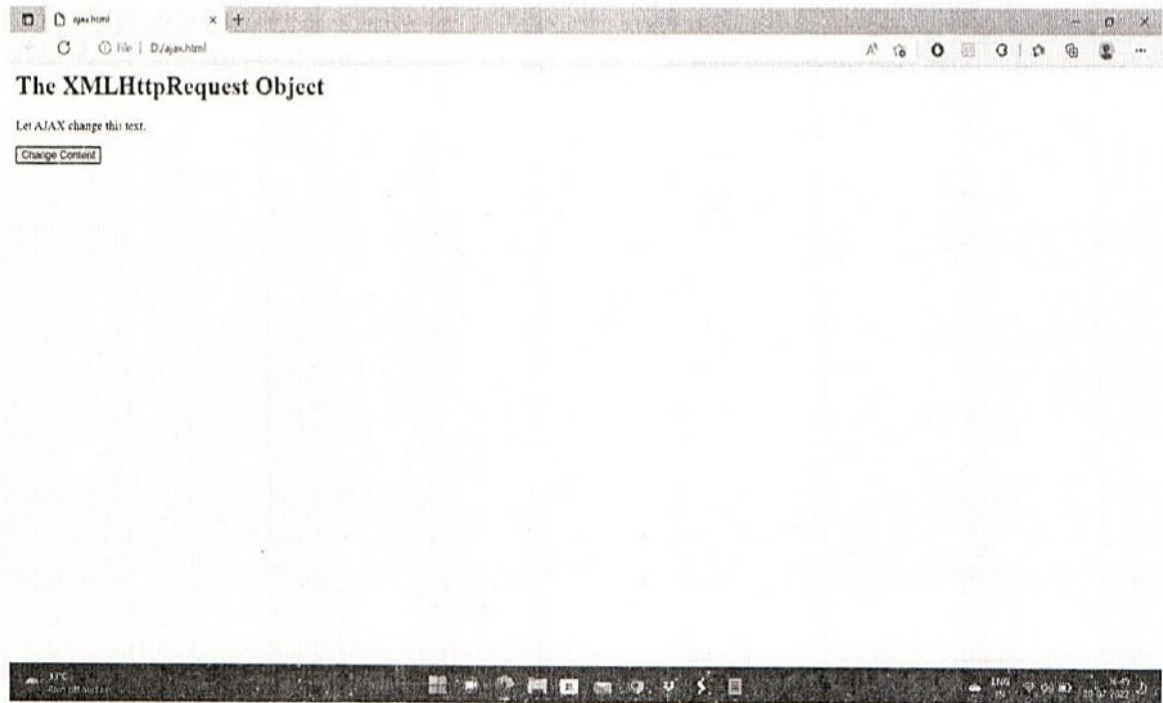
After passing number to find out sqrt of given number Result will display

Press OK and f5 to run script again...

Source Code

```
<html>
<body>
<h1>The XMLHttpRequest Object</h1>
<p id="demo">Let AJAX change this text.</p>
<button type="button" onclick="loadDoc()">Change Content</button>
<script>
function loadDoc() { var xhttp;
if (window.XMLHttpRequest) {
// code for modern browsers xhttp = new XMLHttpRequest();
} else {
// code for IE6, IE5
xhttp = new ActiveXObject("Microsoft.XMLHTTP");
}
xhttp.onreadystatechange = function() {
if (this.readyState == 4 && this.status == 200) {
document.getElementById("demo").innerHTML = this.responseText;
}
};
xhttp.open("GET", "ajax_info.txt", true); xhttp.send();
}
</script>
</body>
</html>
```

SCREEN



Source Code: **Functions.php**

```
<!doctype html>
<head><title>Php Functions</title>
<style type="text/css"> #information
{
height:100%; width:55%;
background-color:skyblue; float:left;
}
#execution
{
height:100%; width:40%;
background-color:yellow; float:left;
margin-left:5px;
}
img
{
margin-left:25px;
}
p{
text-align:left; width:500px;
}
</style>
</head>
<body>
<div id="information">
<pre style="font-family:Times New Roman;font-size:15px;">
<h1>PHP User Defined Functions</h1>
```

The real power of PHP comes from its functions; it has more than 1000 built-in functions.

Besides the built-in PHP functions, we can create our own functions.

<ul type="square">

A function is a block of statements that can be used repeatedly in a program.

A function will not execute immediately when a page loads.

A function will be executed by a call to the function.

<h1>Create a User Defined Function in PHP</h1>

A user defined function declaration starts with the word "function":

Syntax

```
function functionName() { code to be executed;  
}
```


<p>Note:A function name can start with a letter or underscore (not a number).</p>

<p>Tip:Give the function a name that reflects what the function does!</p>

<p><mark>Function names are NOT case-sensitive.</mark></p> In the example below, we create a function named "writeMsg()".

The opening curly brace ({) indicates the beginning of the function code and the closing curly brace (})

indicates the end of the function. The function outputs "Hello world!". To call the function, just write its name:

<p></p>

<h1>PHP Function Arguments</h1>

<p>Information can be passed to functions through arguments. An argument is just like a variable.

Arguments are specified after the function name, inside the parentheses. You can add as many arguments as you want,

just separate them with a comma. The following example has a function with one argument (\$fname).

When the familyName() function is called, we also pass along a name (e.g. Jani),

and the name is used inside the function, which outputs several different first names, but an equal last name:</p>

<p></p>

<h3>The following example has a function with two arguments (\$fname and \$year):</h3>

<p></p>

<h3>PHP Default Argument Value</h3>

<p>The following example shows how to use a default parameter.

If we call the function setHeight() without arguments it takes the default value as argument:</p>

<p></p>

<h3>PHP Functions - Returning values</h3>

<p><mark>To let a function return a value, use the return statement: </mark></p>

<p></p>

</pre>

</div>

<div id="execution">

<ol type="1">

Function with arguments

Function with arguments with return type

<h3>Code for Sum of Two Numbers:</h3>

<form method="post" action="Functions.php">

<p>Enter your choice::<input type="text" name="choice" /></p>

<p>Enter number 1 ::<input type="text" name="num1" /> Example: 1, 2, N</p>

<p>Enter number 2 ::<input type="text" name="num2" /> Example: 1, 2, N</p>

<p><input type="submit" value="Submit" /><input type="reset" value="Clear" /></p>

<?php error_reporting(0);

\$choice=\$_POST['choice'];

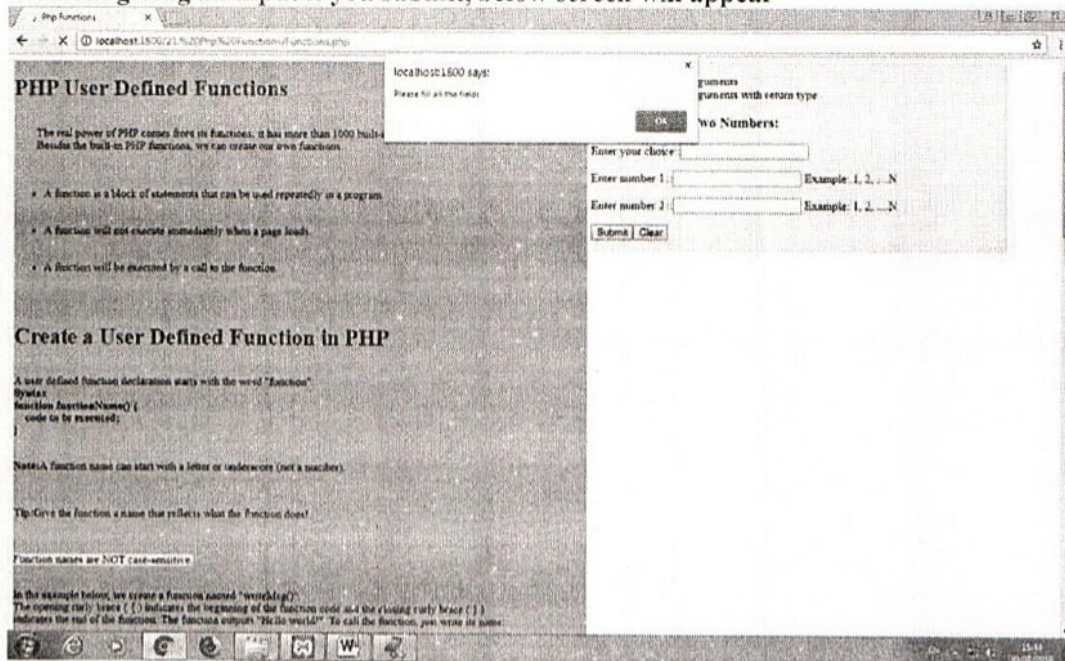
\$num1=\$_POST['num1'];

```
$num2=$_POST['num2']; if($choice&&$num1&&$num2)
{
switch($choice)
{
case 1:
sum($num1,$num2); break;
case 2: echo "Sum of two numbers is" . sum1($num1,$num2); break;
default: echo "<script type=\"text/javascript\">alert('Invalid Choice');</script>";
}
}
else
{
}
echo "<script type=\"text/javascript\">alert('Please fill all the fields');</script>";

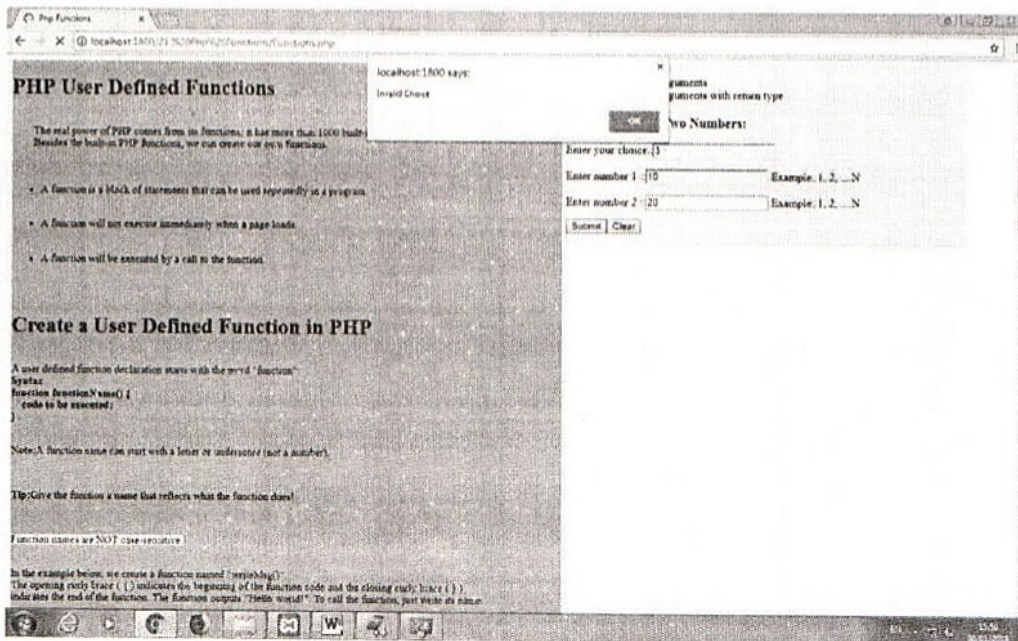
function sum($num1,$num2)
{
echo "You are in functions with arguments..<br />"; echo "Sum of two numbers is:" .
($num1+$num2);
}
function sum1($num1,$num2)
{
echo "You are in functions with arguments with return type..<br />"; return ($num1+$num2);
}
?>
</form>
</div>
</body>
</htm>
```

Screens:

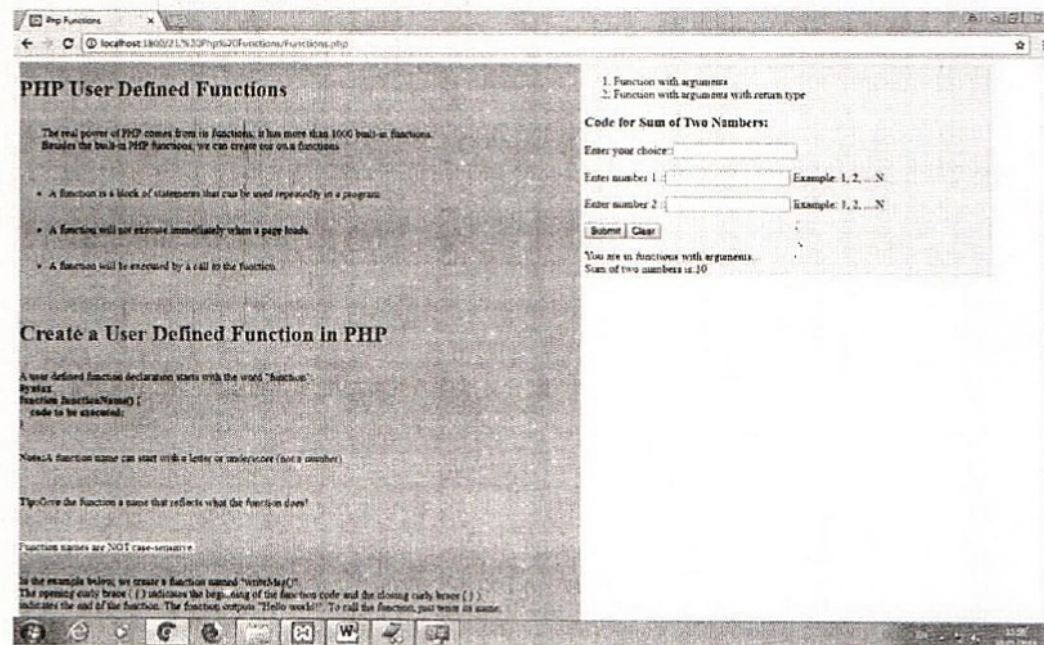
Without giving an input if you submit, below screen will appear



If you enter values, where a choice is not valid it will show you below screen



If you enter valid input then you submit, below screen will appear



PHP User Defined Functions

The real power of PHP comes from its functions. It has more than 1000 built-in functions. Besides the built-in PHP functions, we can create our own functions.

- A function is a block of statements that can be used repeatedly in a program.
- A function will not execute immediately when a page loads.
- A function will be executed by a call to the function.

Create a User Defined Function in PHP

A user defined function declaration starts with the word "function".

```
function functionName() {  
    code to be executed;  
}
```

Note: A function name can start with a letter or underscore (not a number).

Tip: Give the function a name that reflects what the function does!

Function names are NOT case-sensitive

In the example below, we create a function named "sum".

```
function sum($a,$b) {  
    $sum = $a + $b;  
    return $sum;  
}
```

The opening curly brace { indicates the beginning of the function code and the closing curly brace } indicates the end of the function. The function outputs "Hello world!". To call the function, you write its name.

Code for Sum of Two Numbers:

Enter your choice:

Enter number 1: Example: 1, 2, ... N

Enter number 2: Example: 1, 2, ... N

You are in functions with arguments.
Sum of two numbers is: 10

Source code

```
import java.sql.*; class MysqlCon{
public static void main(String args[]){ try{ Class.forName("com.mysql.jdbc.Driver");
Connection con=DriverManager.getConnection(
"jdbc:mysql://localhost:3306/product","root","root");
//here purchase is database name, root is username and no password (defaultly mysql is
doesn't having any password Statement stmt=con.createStatement();
ResultSet rs=stmt.executeQuery("select * from purchase"); while(rs.next())
System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3)+ " "+rs.getInt(4)+"
"+rs.getString(5)+" "+rs.getString(6)+
rs.getInt(7)+" "+rs.getString(8)+" "+rs.getString(9)); con.close();
}catch(Exception e){ System.out.println(e);}
}
}
```

Screen

Source code:

```
<html>
<head>
<title> new page1 </title>
</head>
<body>
<h2>login</h2>
<p>please enter username and password</p>
<form method="GET" action="/htmlform/loginservlets">
<p>username<input type="text" name="username" size="20"></p>
<p>password<input type="text" name="password" size="20"></p>
<p><input type="submit" value="submit" name="B1"></P>
</form>
<p>&nbsp;</p>
</body>
</html>
```

LoginServlet.java:

```
import java.io. *; import javax.servlet.*;
import javax.servlet.http.*;
public class LoginServlet extends HttpServlet
{
    ;
    public void doGet(HttpServletRequest request, HttpServletResponse response) throws
    ServletException, IOException
    {
        response.setContentType("text/html");

        PrintWriter out=response.getWriter();

        String name=request.getParameter("username"); String
        name=request.getParameter("password"); out.println("<html>");
```

```
out.println("<body>");
```

```
out.println("Thanks Mr."+" "+name+" "+"for visiting RoseIndia<br>"); out.println("now  
youcanseeyourpassword:"+" "+pass+"<br>"); out.println("</body></html>");
```

```
}
```

```
}
```

web.xml:

```
<web-app>
```

```
<servlet>
```

```
<servlet-name>heilo</servlet-name>
```

```
<servlet-class>Loginservlet</servlet-class>
```

```
</servlet>
```

```
<servlet-mapping>
```

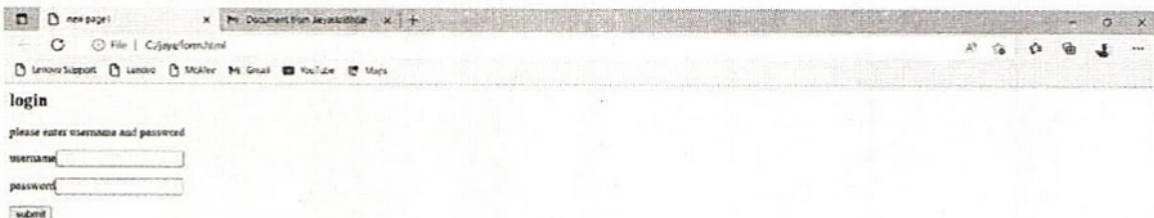
```
<servlet-name>Hello</servlet-name>
```

```
<url-pattern>/LoginServlet</url-pattern>
```

```
</servlet-mapping>
```

```
</web-app>
```

SCREEN



login

please enter username and password

username

password

Form.html

Source code:

```
<html>
<form method="post" action="/jsptwo/Insert.jsp">
<table>
<tr><td>Name:</td><td><input type="text" name="name"></td></tr>
<tr><td>adress:</td><td><input type="text" name="address"></td></tr>
<tr><td></td><td><input type="submit" vlaue="submit"></td></tr>
</table>
</form>
</html>
```

Insert.jsp:

```
<%@page import="java.sql.*"%>
<%
String name=request.getParameter("name"); String
address=request.getParameter("address"); Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con=DriverManage.getConnection("jdbc:odbc:student","src","admin123")
Statement st=con.createStatement();
int i=st.executeUpdate("insert into
student(name,address)values('"+name+"','"+address+"')"); out.println("Data is inserted
siuccessfully");
%>
```

SCREEN

The screenshot shows a web browser window with the following elements:

- Address Bar:** Displays the file path `C:/java/jdbc.html`.
- Navigation Bar:** Includes icons for back, forward, and search, along with a search input field.
- Form:** Contains two text input fields labeled "Name:" and "address:", followed by a "Submit" button.
- Footer:** Displays the text "28°C Partly cloudy" on the left and a series of icons on the right.

The screenshot shows a system tray area with the following elements:

- Temperature and Weather:** Displays "28°C" and "Partly cloudy".
- System Icons:** Includes icons for network, volume, and other system functions.
- Language and Time:** Displays "ENG IN" and "22:50 20-07-2022".

Source Code

```
<%@page language="java"session="true"%>
<html>
<head>
<title>JSP expression</title>
</head>
<body>
<h3>demonstrating JSP expressoin</h3> the value of &nbsp;
<strong>2+2</strong>is
<em><%=2+2></em><br/> the value of &nbsp;
<strong>(2+2)*(3+3)</strong>is<em><%=(2+2)*(3+3%)</em>
<%! String str="<strong>10 times 2 is</strong>";%>
<%! int x=10,y=2;%><br>
<%=str+(x*y)%>
<h4>once again with scriptlet
<%out.println(str+(x*y));%>
</body>
</html>
```

Scriptlet.jsp

```
<HTML>
<BODY>
<%=
//thisscriptletdeclaresand initializes "date" System.out.println("evaluating date now");
java.util.Date.date=new java.util.Date();
%>
Hello! thetime is now
<%=out,println(date);
```

```
out.println("<BR>Your machine's address is"); out.println(request.getRemoteHost());
```

```
%>
```

```
</BODY>
```

```
</HTML>
```

Sample.jsp

```
<!doctype html public "-//W3C//DTD HTML 4.0 Transitional//EN">
```

```
<HTML>
```

```
<HEAD>
```

```
<TITLE>new document </TITLE>
```

```
<META NAME="Generator" CONTENT="Editplus">
```

```
<META NAME="author"> CONTENT="">
```

```
<META NAME="keywords" CONTENT="">
```

```
<META NAME="Description" CONTENT="">
```

```
</HEAD>
```

```
</BODY>
```

```
<% out.println("hi,welcome to JSP");
```

```
%
```

```
</BODY>
```

```
</HTML>
```

Comments.jsp

```
<!doctype html public "-//W3C//DTD HTML 4.0 transitional//EN>
```

```
<HTML>
```

```
<HEAD>
```

```
<TITLE>new document</TITLE>
```

```
<META NAME="Generator" CONTENT="Editplus">
```

```
<META NAME="author"> CONTENT="">
```

```
<META NAME="keywords" CONTENT="">
```

```
<META NAME="Description" CONTENT="">
```

```
</HEAD>
```

```
</BODY>
```

```
<% out.println("hi,welcome to jsp");
```

```
%
```

```
</BODY>
```

```
</HTML>
```

First.jsp

```
<html>
```

```
<head>
```

```
<title>JSP 2.0 Expression Language -Basic Airthmatic</title>
```

```
</head>
```

```
<body>
```

```
<h1>JSP 2.0 Expression Language - Basic Airthmatic</h1>
```

```
<hr>
```

this example illustrates basic expression language arithmetic.

addition (+),subtraction(-),multiplication(*),division(/ or div),and modulus(% or mod)are all supported.Error conditions,like division by zero,are handled gracefully.

```
<br>
```

```
<blockquote>
```

```
<code>
```

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

```
<thead>
```

```
<td><b>EL Expression</b></td>
```

```
<td><b>Result</b></td>
```

```
</thead>
```

```
<tr>
```

<td>\\${1}</td>

<td>\\${1}</td>

</tr>

<tr>

<td>\\${1+2}</td>

<td>\\${1+2}</td>

</tr>

<tr>

<td>\\${1.2+2.3}</td>

<td>\\${1.2+2.3}</td>

</tr>

<tr>

<td>\\${1.2E4+1.4}</td>

<td>\\${1.2E4+1.4}</td>

</tr>

<tr>

<td>\\${-4-2}</td>

<td>\\${}-4-2</td>

</tr>

<tr>

<td>\\${21*2}</td>

<td>\\${21*2}</td>

</tr>

<tr>

<td>\\${3/4}</td>

<td>\\${3/4}</td>

</tr>

<tr>

<td>\\${3 div 4}</td>

```

<td>\${3 div 4}</td>
</tr>
<tr>
<td>\${3/0}</td>
<td>\${3/0}</td>
</tr>
<tr>
<td>\${10%4}</td>
<td>\${10%4}</td>
</tr>
<tr>
<td>\${10 mod 4}</td>
<td>\${10 mod 4}</td>
</tr>
<tr>
<td>\${(1==2)?3:4}</td>
<td>\${(1==2)?3:4}</td>
</tr>
</table>
</code>
</blockquote>
</body>
</html>

```

Second.html

```

<html>
<body>
<strong>You are forwarded to Second page!</strong>
</body>

```

</html>

Forward.jsp

<html

<head>

<title>Forward action Demo</title>

</head>

<body>

<h1>This page contains forward action </h1>

<jsp:forward page="second.html/">

</body>

</html>

SCREEN

