

Program -1.a)

Aim:Demomstrate all the basic tags in html file for formatting tags.

Source Code:

i.)Physical Formatting tags

```
<!DOCTYPE html>

<html>

  <head>

    <title>physical formating tags</title>

  </head>

  <body>

    <i>Bapatla engineering college</i><br>

    <u>Bapatla engineering college</u><br>

    <small>Bapatla engineering college</small><br>

    <big>Bapatla engineering college</big><br>

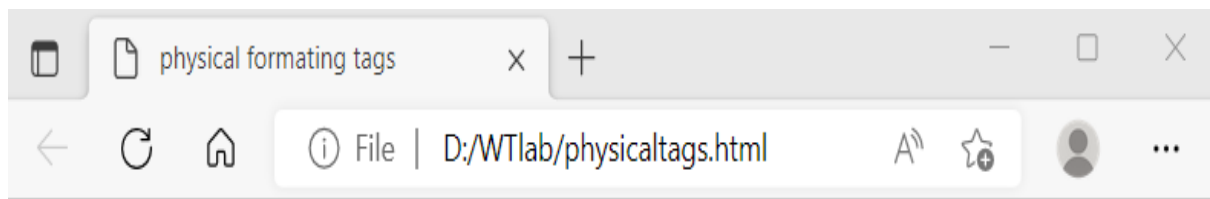
    <b>Bapatla engineering college</b><br>

    BEC<sub>Bapatla engineering college</sub><br>

    BEC<sup>Bapatla engineering college</sup><br>

  </body>

</html>
```

Output:

Bapatla engineering college

Bapatla engineering college

Bapatla engineering college

Bapatla engineering college

Bapatla engineering college

BEC_{Bapatla engineering college}

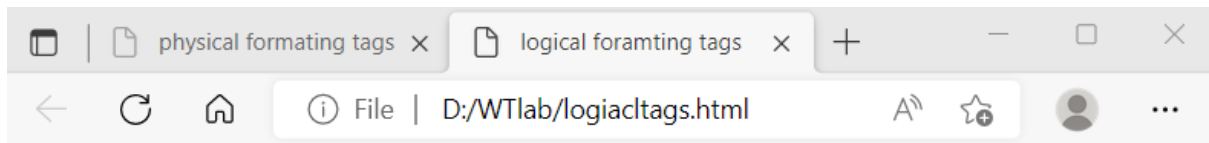
BEC^{Bapatla engineering college}

ii) Logical Formatting Tags**Source Code:**

```

<!DOCTYPE html>
<html>
<head>
    <title>logical formatting tags</title>
</head>
<body>
    This is <ins>inserted text</ins><br>
        This is <del>deleted text</del><br>
        This is <mark>marked text</mark><br>
        This is <em>emphasizing text</em><br>
        This is <strong>stronger text</strong><br>
        <abbr title="hyper text mark up language">HTML</abbr>is used
to develop web pages<br>
        <dfn title="hyper text mark up language">HTML</dfn>is used to
develop webpages<br>
        The formatting tags are of two types:<q>physical and
logical</q><br>
        In HTML,<blockquote>logical formatting tags specifies that the
text enclosed in the tag gives the meaning or usage or information of the
text.</blockquote>for example ABBR tag conveys to the webpage that it is the
abbreviation of the text.<br><br>
        Press<kbd> ENTER </kbd> to run the pgm.<br><br>
        <bdo dir="ltr">this text direction is from left-to-right.</bdo><br>
        <bdo dir="rtl">this text direction is from right-to-left.</bdo><br>
        <h2>sample code</h2>
        <code>
            &lt;!DOCTYPE html&gt;<br>
            &lt;html&gt;<br>
            &lt;head&gt;<br>
            &lt;title&gt;sample html code&lt;/title&gt;<br>
            &lt;/head&gt;<br>
            &lt;body&gt;<br>
            &lt;h3&gt;html code&lt;/h3&gt;<br>
            &lt;/body&gt;<br>
            &lt;/html&gt;<br>
        </code>
    </body>
</html>

```

Output:

This is inserted text

This is ~~deleted text~~

This is **marked text**

This is *emphasizing text*

This is **stronger text**

HTML is used to develop web pages

HTML is used to develop webpages

The formatting tags are of two types: "physical and logical"

In HTML,

logical formatting tags specify that the text enclosed in the tag gives the meaning or usage or information of the text.

for example ABBR tag conveys to the webpage that it is the abbreviation of the text.

Press ENTER to run the pgm.

this text direction is from left-to-right.

.tfel-ot-thgir morf si noitcerid txet siht

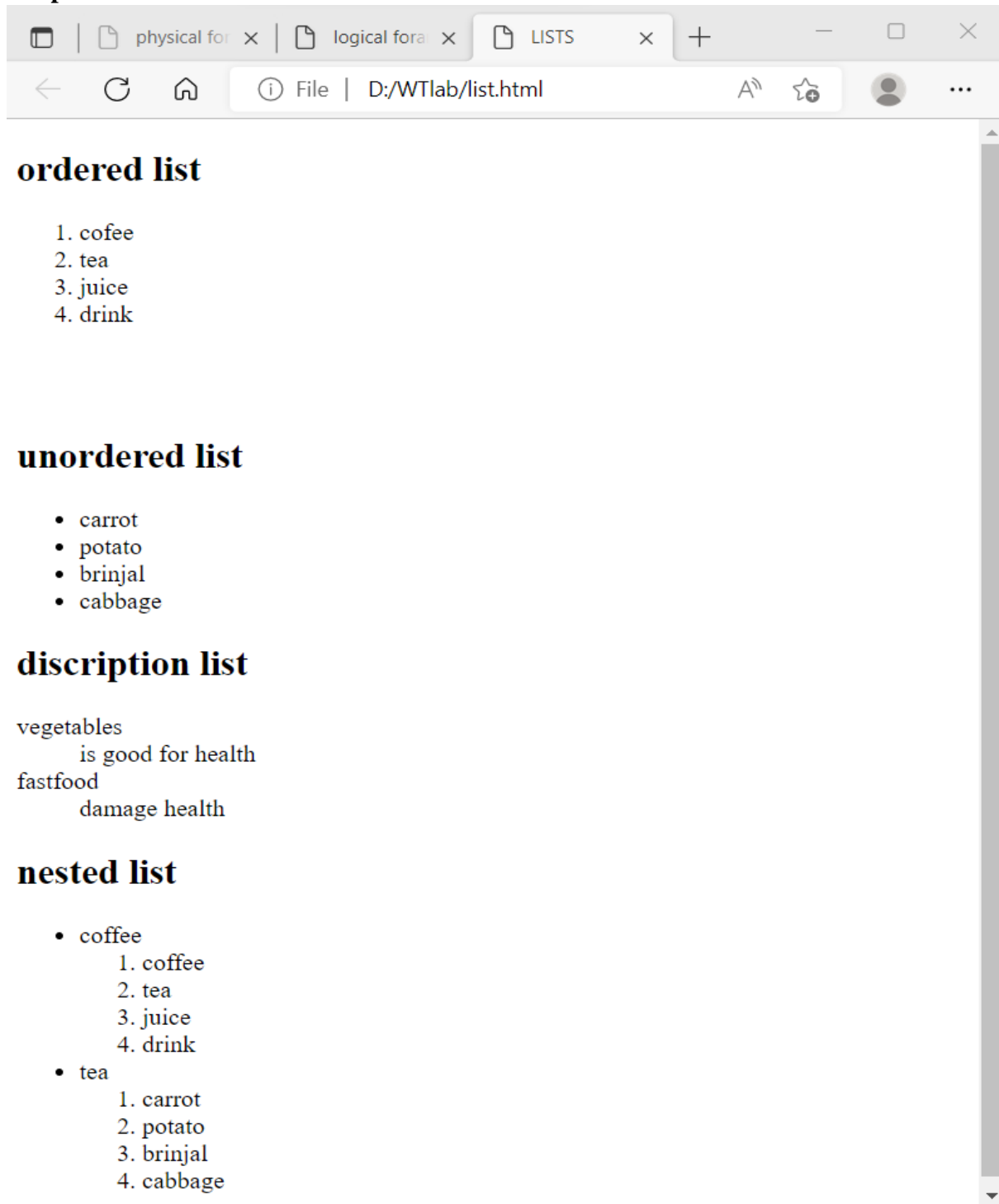
sample code

```
<!DOCTYPE html>
<html>
<head>
<title>sample html code</title>
</head>
<body>
<h3>html code</h3>
</body>
</html>
```

Program-1b)**Aim: Demonstrate all the basic tags in html5 for representing various lists****Source code:**

```
<!DOCTYPE html>
<html>
  <head>
    <title>LISTS</title>
  </head>
  <body>
    <h2>ordered list</h2>
    <ol>
      <li>cofee</li>
      <li>tea</li>
      <li>juice</li>
      <li>drink</li>
    </ol><br><br>
    <h2>unordered list</h2>
    <ul>
      <li>carrot</li>
      <li>potato</li>
      <li>brinjal</li>
      <li>cabbage</li>
    </ul>
    <h2>discription list</h2>
    <dl>
      <dt>vegetables</dt>
      <dd>is good for health</dd>
      <dt>fastfood</dt>
      <dd>damage health</dd>
    </dl>
    <h2>nested list</h2>
    <ul>
      <li>coffee</li>
    <ol>
      <li>coffee</li>
      <li>tea</li>
      <li>juice</li>
      <li>drink</li>
    </ol>
      <li>tea</li>
    <ol>
      <li>carrot</li>
      <li>potato</li>
      <li>brinjal</li>
      <li>cabbage</li>
    </ol>
```

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

Output:

Program1c)**Aim: Demonstrate all the basic tags in html5 for timetable Creation****Source code:**

```

<!DOCTYPE html>
<html>
  <head>
    <title>table creation</title>
  </head>
  <body>
    <table border="1">
      <col style="background-color:orange">
      <tr col style="background-color:orange">
        <th>time<br>day</th>
        <th>7:30-<br>8:20</th>
        <th>8:20-<br>9:10</th>
        <th>9:10-<br>10:00</th>
        <th rowspan=7 align="center">B<br>R<br>E<br>A<br>K</th>
        <th>10:30-<br>11:20</th>
        <th>11:20-<br>12:10</th>
        <th>12:10-<br>1:00</th>
      </tr>
      <tr>
        <th>Mon</th>
        <td>PEHV</td>
        <td>DAA</td>
        <td>python-programming</td>
        <td>WT</td>
        <td>p&s</td>
        <td>DBMS</td>
      </tr>
      <tr>
        <th>Tue</th>
        <td colspan=3 align="center">WT/RDBMS lab</td>
        <td>DBMS</td>
        <td>python-programming</td>
        <td>wt</td>
      </tr>
      <tr>
        <th>Wed</th>
        <td>P&s</td>
        <td>DAA</td>
        <td>wt</td>
        <td colspan=3 align="center">RDBMS/python lab</td>
      </tr>
      <tr>

```



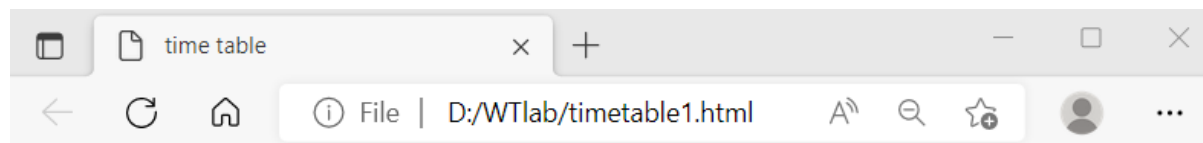
```

<th>Thu</th>
<td>PEHV</td>
<td>python-programming</td>
<td>DBMS</td>
<td>p&s</td>
<td>wt</td>
<td>DAA</td>
</tr>
<tr>
  <th>Fri</th>
  <td colspan=3 align="center">Python/WT lab</td>
  <td>PEHV</td>
  <td>DAA</td>
  <td>DBMS</td>
</tr>
<tr>
  <th>Sat</th>
  <td>DAA</td>
  <td>DBMS</td>
  <td>P&S</td>
  <td>PEHV</td>
  <td>wt</td>
  <td col style="background-color:green"> mentoring</td>
</tr>
</body>
</html>
<!DOCTYPE html>
<html>
  <body>
    <table>
<tr col style="background-color:orange">
  <th>sub.code</th>
  <th>sub.name</th>
  <th>faculty.name</th>
  <th>sub.code</th>
  <th>sub.name</th>
  <th>faculty.name</th>
</tr>
<tr>
  <th>20IT401</th>
  <td>p&s</td>
  <td>mr.pothraju</td>
  <td>20ITL401</td>
  <td>WT lab</td>
  <td>mr.sk.mabash</td>
</tr>

```

```
<tr>
  <th>20IT402</th>
  <td>WT</td>
  <td>mr.sk.mabasha</td>
  <td>20ITL402</td>
  <td>RDBMS lab</td>
  <td>mr.p.ravi kumar</td>
</tr>
<tr>
  <th>20IT403</th>
  <td>DBMS</td>
  <td>mr.p.ravi kumar</td>
  <td>20ITL403/SO02</td>
  <td>Python programming lab</td>
  <td>mr.k.suresh kumar</td>
</tr>
<tr>
  <th>20IT404</th>
  <td>DAA</td>
  <td>prof.N.sivaram prasad</td>
  <td></td>
  <td></td>
  <td></td>
</tr>
<tr>
  <th>20IT405</th>
  <td>PEHV</td>
  <td>Dr.k.srinivasa Rao</td>
  <td></td>
  <td></td>
  <td></td>
</tr>
</body>
</html>
```

Output:

**BAPATLA ENGINEERING COLLEGE::Bapatla****(Autonomous)****Department of Information Technology****class time table for the A.Y 2021-22,4th Semester****w.e.f:28-03-2022 class:2/4B.Tech sec:A Room no:RPLH-03**

Time/day	7:30-8:20	8:20-9:10	9:10-10:00		10:30-11:20	11:20-12:10	12:10-1:00
MON	PEHV	DAA	Python Programming	B	WT	P&S	DBMS
TUE		WT Lab		R	DBMS	Python Programming	WT
WED	P&S	DAA	WT	E		RDBMS Lab	
THU	PEHV	Python Programming	DBMS	A	P&S	WT	DAA
FRI		Python Programming lab		K	PEHV	DAA	DBMS
SAT	DAA	DBMS	P&S	-	PEHV	WT	Mentoring

section coordinator:Mr.K.Suresh kumar,Asst.Professor

sub.code	sub.name	faculty name	sub.code	sub.name	faculty name
20IT401	P&S	Mr.I.Pothuraju	20ITL401	WT Lab	MR.SK.Mabasha
20IT402	WT	Mr.SK.Mabasha	20ITL402	RDBMS Lab	Mr.P.Ravikumar
20IT403	DBMS	Mr.P.Ravikumar	20ITL403	Python Programming Lab	MR.K.Suresh kumar
20IT404	DAA	Prof.N.Sivaram prasad			
20IT405	PEHV	Dr.K.Srinivasa Rao			

Time/day	7:30-8:20	8:20-9:10	9:10-10:00		10:30-11:20	11:20-12:10	12:10-1:00
MON		WT Lab		B	DBMS	DAA	WT
TUE	PEHV	P&S	Python Programming	R	WT	DAA	DBMS
WED	DAA	DBMS	P&S	E	Python Programming	WT	PEHV
THU	WT	PEHV	DAA	A		RDBMS LAB	
FRI	Python Programming lab	P&S	DAA	K	DBMS	WT	PEHV
SAT		RDBMS Lab		-	PEHV	WT	Mentoring

section coordinator:Mr.SK.Mabasha,Asst.Professor

sub.code	sub.name	faculty name	sub.code	sub.name	faculty name
20IT401	P&S	Mr.I.Pothuraju	20ITL401	WT Lab	MR.SK.Mabasha
20IT402	WT	Mr.SK.Mabasha	20ITL402	RDBMS Lab	Mr.P.Ravikumar
20IT403	DBMS	Mr.P.Ravikumar	20ITL403	Python Programming Lab	MR.K.Suresh kumar
20IT404	DAA	Prof.N.Sivaram prasad			
20IT405	PEHV	Dr.K.Srinivasa Rao			

Program-2a)

Aim: Demonstrate all the basic tags in html5 for describing internal,external and image as link.

Source code:

[illegible]

```
<a id="bottom"></p>
```

```
<h1>External Link</h1>
```

```
<p><a href="https://www.w3schools.com" target="_blank">clik here togo</a></p>
```

```
<h1>Image as link</h1>
```

```
<a href="https://www.w3schools.com">
```

```
</a>
```

```
</body>
```

```
</html>
```

Output:

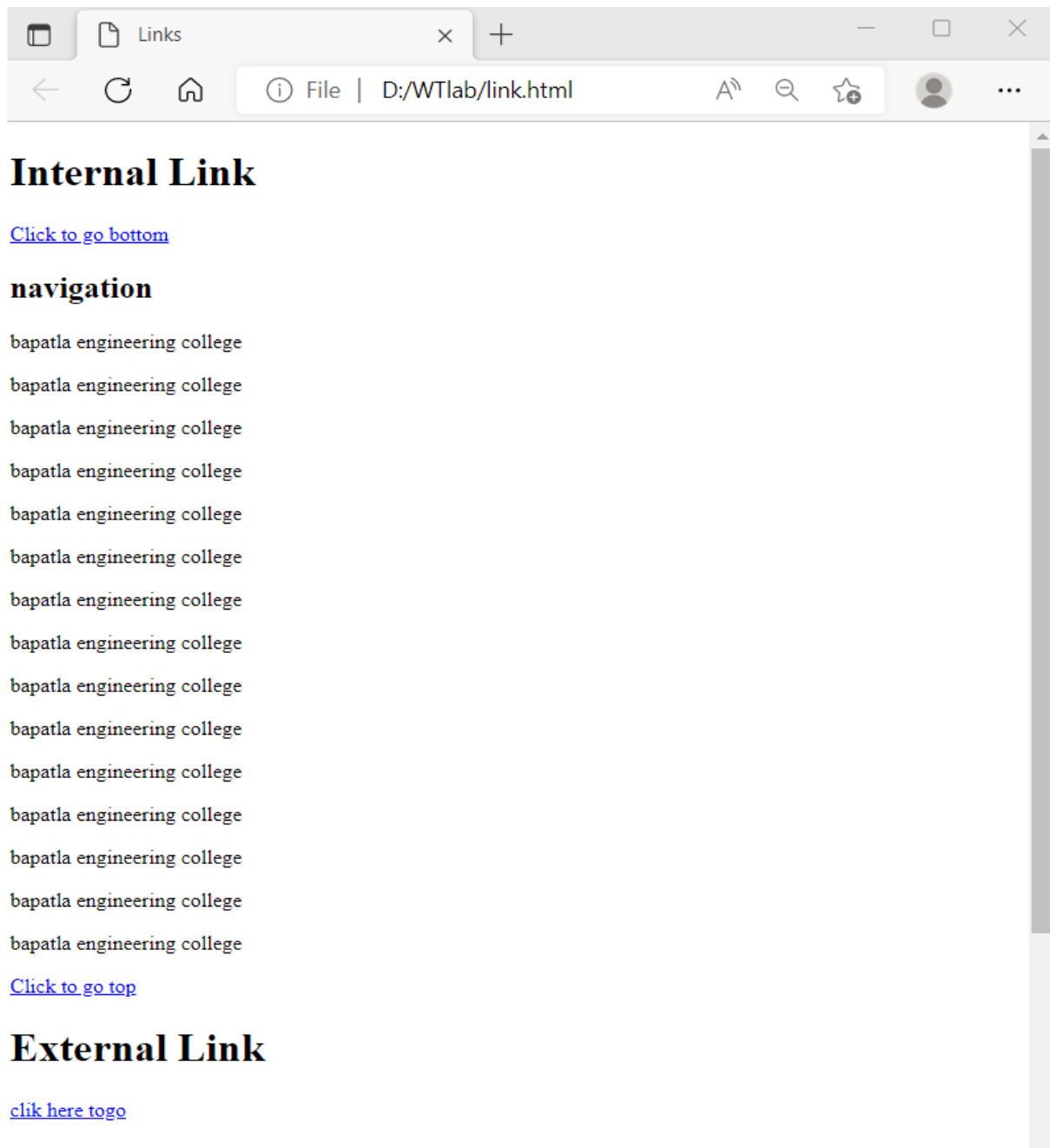


Image as link



Program-2b)**Aim: Design a webpage to demonstrate Id tag used in frames****Source code:**

```
<!DOCTYPE html>

<html>

  <head>

    <title>Frames</title>

  </head>

  <frameset rows="20%,60%,20%">

    <frame name="header" src="header.html">

    <frameset cols="25%,75%">

      <frame name="navigation" src="nav.html">

      <frame name="section" src=" " >

    </frameset>

    <frame src=" " name="footer">

  </frameset>

</html>

<!DOCTYPE html>

<html>

  <head>

    <title>ID</title>

  </head>

  <body>

    <a href="#bottom"> </a>

    <a id="top">

    <h2>Navigation</h2>

    <p>Bapatla Engineering College</p>

    <p>Bapatla Engineering College</p>

    <p>Bapatla Engineering College</p>
```


<p>Bapatla Engineering College</p>

<p>Bapatla Engineering College</p>

<p>Bapatla Engineering College</p>

<p>Bapatla Engineering College</p>

<p>Bapatla Engineering College</p>

<p>Bapatla Engineering College</p>

<p>Bapatla Engineering College</p>

<p>Bapatla Engineering College</p>

<p>Bapatla Engineering College</p>

<p>Bapatla Engineering College</p>

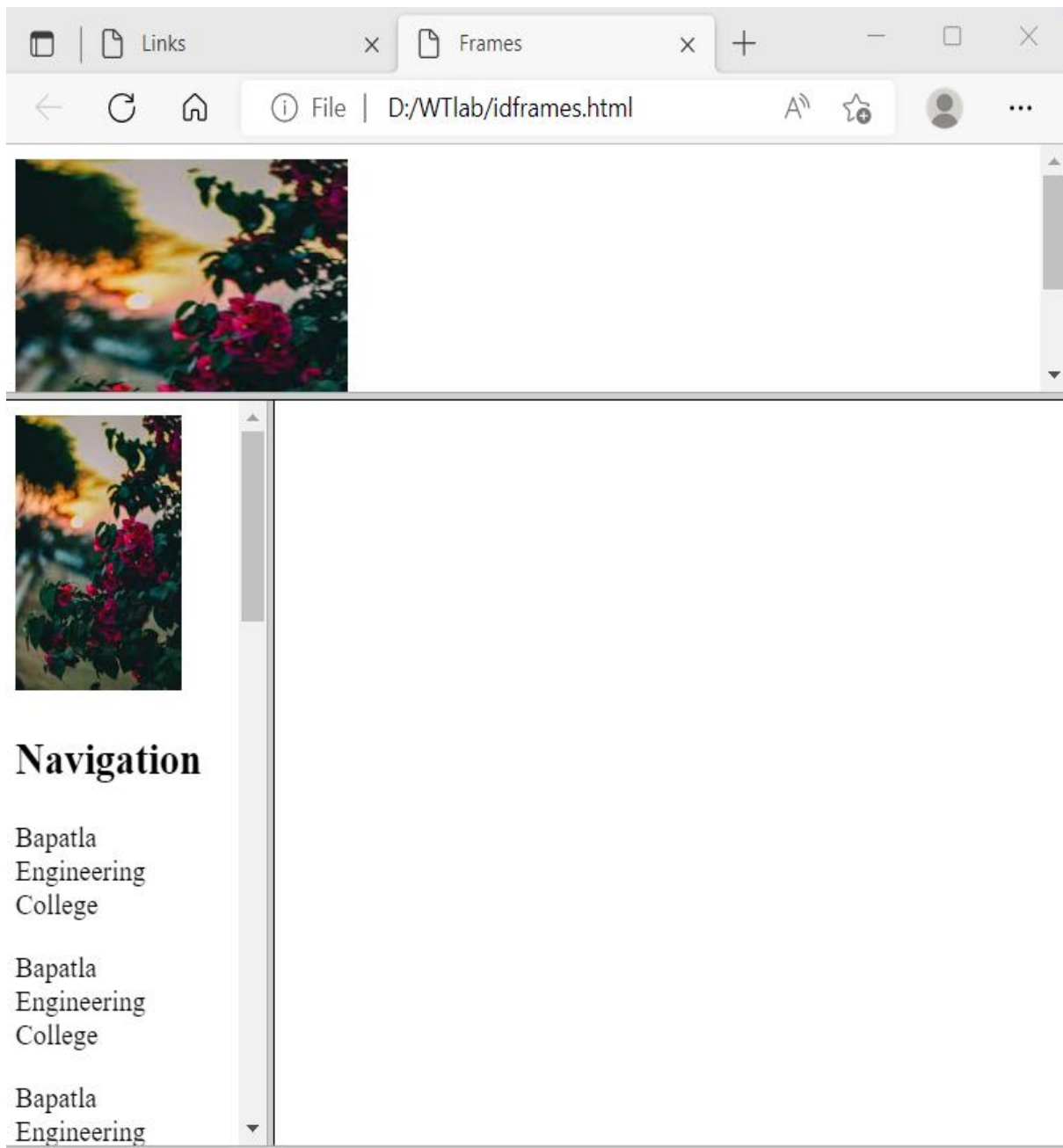
<p>Bapatla Engineering College</p>

<p>Bapatla Engineering College</p>

</body>

</html>

Output:



Program-2c)

Aim: Demontstrate all the basic tags in html5 for Image map creation.

Source code:

```
<!DOCTYPE html>

<html>

<head>

    <title>Image Map</title>

</head>

<body>

    <h1>Image Map Creation</h1>

        <map name="india">

            <area shape="poly" coords="315 800 369 445 758 541 694 572 688 517 741 481 779
445 803 354 901 " href="http://ap.nic.in.com"/>

            <area shape="rect" coords="536 999 785 1092" href="https://www.ap.gov.in"/>

            <area shape="poly" coords="204 282 118 301 179 320 153 339 130 361 102 368 88
385 66 402 81 410 95 440 109 475 174 490 219 539 257 471 276 506 318 461 293 441 352
401 253 313 231 300 209 282" href="https://rajasthan.gov.in"/>

        </map>

    </body>

</html>
```

Output:

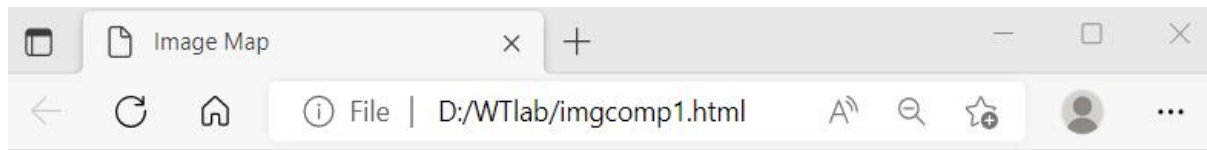


Image Map Creation



Program-3a)

Aim: Write an HTML document to create registration form using all the input fields.

Source code:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Registration Form</title>
  </head>
  <body>
    <center><u><h2>STUDENT REGISTRATION FORM</h2></u></center>
    <form style="text-align:center">
      <frame action="student1.html">
        <label>Name :</label>
        <input type="text" style="UserName" placeholder="Enter Full Name"><br><br>
          <label>Father Name :</label>
          <input type="text" ><br><br>
          <label>Mother Name :</label>
          <input type="text" ><br><br>
          <label>Student Phone no :</label>
          <input type="digits" maxlength="10" placeholder="+91*****" ><br><br>
          <label>Email ID :</label>
          <input type="text" placeholder="emailid@gmail.com"><br><br>
          <label for="gender">Gender: </label>
            <input type="radio" name="n" value="male">Male
            <input type="radio" name="n" value="female">Female
            <input type="radio" name="n" value="others">other's <br><br>
          <label>Date Of Birth :</label>
          <input type="date" name="dob"><br><br>
          <label>Address: </label>
          <input type="text" placeholder="Street:- House:- Road:- " ><br><br>
          <label>Blood Group :</label>
          <select>
            <option>A</option>
            <option>A+</option>
            <option>B</option>
            <option>B+</option>
            <option>O</option>
            <option>O+</option>
          </select><br><br>
          <label>Department:</label>
            <input type="radio" name="n" value="cse" >CSE
            <input type="radio" name="n" value="it" >IT
            <input type="radio" name="n" value="ds" >DS
            <input type="radio" name="n" value="ece" >ECE
```

```
<input type="radio" name="n" value="cs" >CS
<input type="radio" name="n" value="civil" >CIVIL<br><br>
<label>Course :</label>
  <input type="radio" name="n" value="c">C
  <input type="radio" name="n" value="c++">C++
  <input type="radio" name="n" value="java">JAVA
  <input type="radio" name="n" value="python">PYTHON
  <input type="radio" name="n" value="wt">WT<br><br>
<label>Photo :</label>
<br><br>
<input type="Submit" value="Submit">
<input type="Reset" value="Reset">
</form>
</body>
</html>
```

Output:

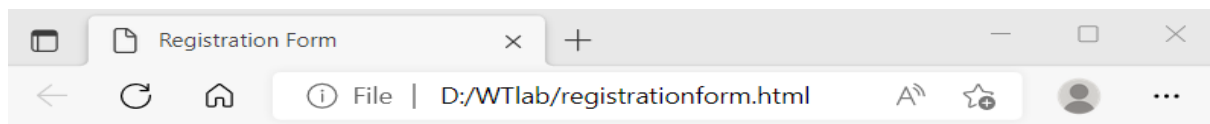


**STUDENT REGISTRATION FORM**Name : Father Name : Mother Name : Student Phone no : Email ID : Gender: ☐ Male ☐ Female ☐ other'sDate Of Birth : Address: Blood Group : Department: ☐ CSE ☐ IT ☐ DS ☐ ECE ☐ CS ☐ CIVILCourse : ☐ C ☐ C++ ☐ JAVA ☐ PYTHON ☐ WT

Photo :

Program-3b)

Aim: Write an HTML document to create a form that demonstrate the label,textarea,select,option,optiongroup,legend,fieldset,datalist.

Source code:

```
<!DOCTYPE html>

<html>

  <head>

    <title>Form Elements</title>

  </head>

  <body>

    <h1>Form Elements</h1>

    <form>

      <label>Blood Group:</label>

      <select>

        <option>A</option>

        <option>A+</option>

        <option>B</option>

        <option>B+</option>

        <option>C</option>

        <option>C+</option>

      </select><br><br>

      <h2>select any of the item</h2>

      <select>

        <OPTGROUP label="fruits">

          <option>apple</option>

          <option>mango</option>

          <option>papaya</option>

        </OPTGROUP>

        <OPTGROUP label="vegetables">

          <option>carrot</option>

          <option>brinjal</option>

          <option>cucumber</option>

        </OPTGROUP>

      </select>

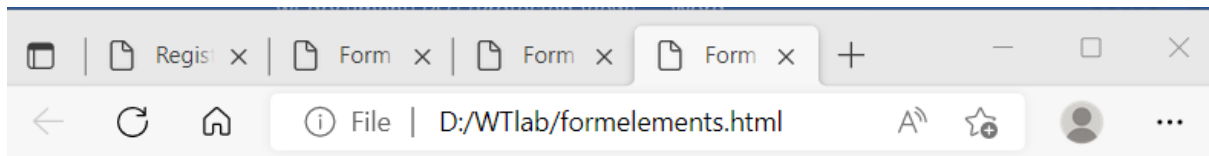
    </form>

  </body>

</html>
```



```
<OPTGROUP label="trees">
<option>bamboo</option>
<option>banyan</option>
<option>teak</option>
</OPTGROUP>
</select><br><br><br><br>
Fill the details:<br>
<textarea rows="5" cols="50" name="description">
Enter the details here
</textarea><br>
<input type="submit" value="submit"><br><br>
<h3>select any of the cars</h3>
<input type="text" name="favcars" list="cars">
<datalist id="cars">
<option value="audi">
  <option value="BMW">
  <option value="ferari">
</datalist><br><br><br>
<h4>plz enter the student details:-</h4>
<fieldset>
<legend>Student Details</legend>
<label>Student name:</label>
<input type="text">
<label>Branch:</label>
<input type="text">
<label>Reg No:</label>
<input type="text">
</fieldset>
</form>
</body>
</html>
```

Output:

Form Elements

Blood Group: **select any of the item**

Fill the detailes:

Enter the detailes here

name:meghana

rbranch:IT

select any of the cars**plz enter the student detailes:-**

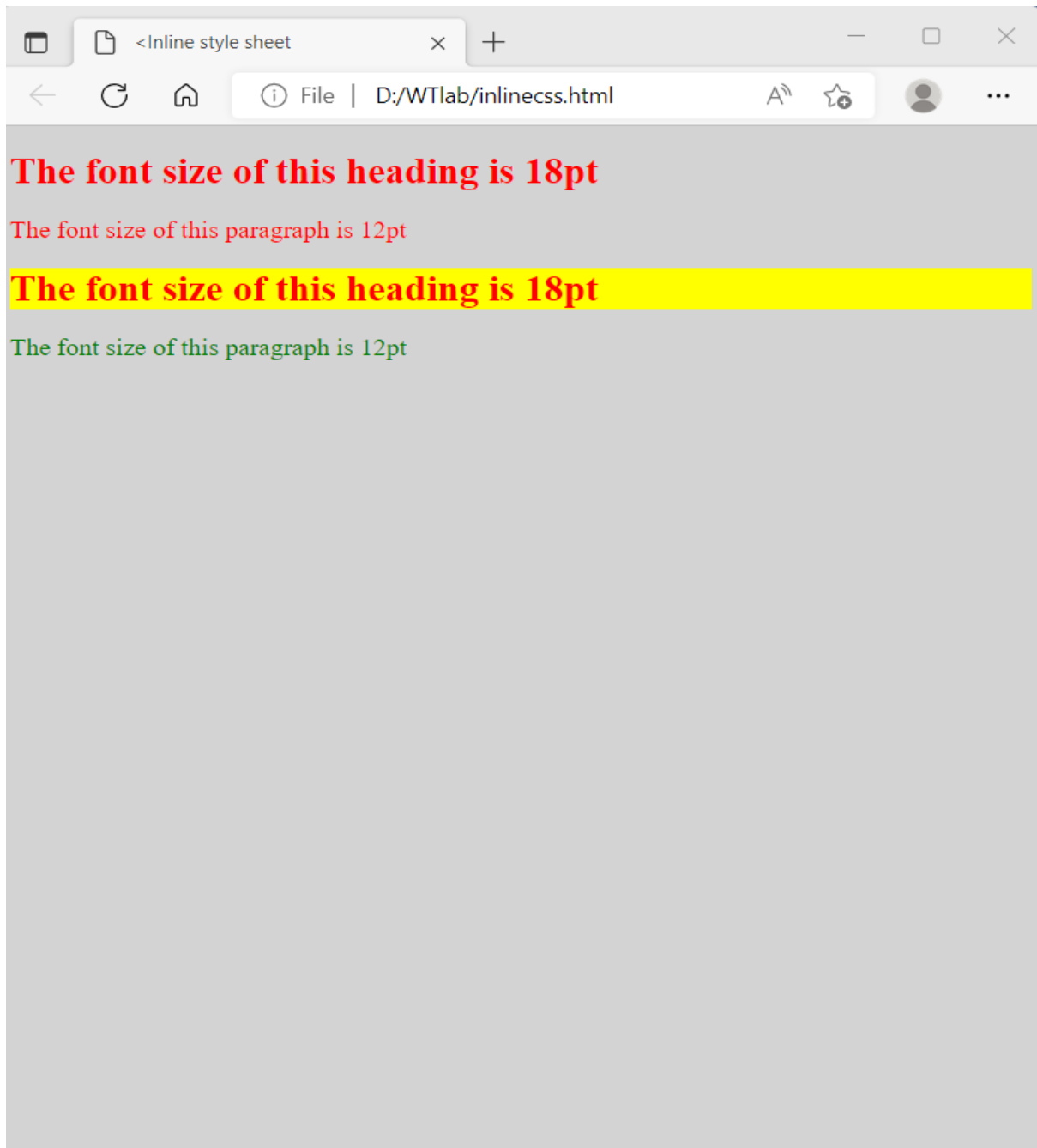
Student Detailes

Student name: Branch: Reg No:

Program-4a)**Aim: Demonstrate all the styles in css3****i) inline ii) internal iii)external****i)Inline style sheet****Source code:**

```
<!DOCTYPE html>
<html>
  <head>
    <title><Inline style sheet</title>
    </head>
    <body style="color:red;background-color:lightgrey;font-family:sans serif;">
      <h1 style="font-size:18pt">The font size of this heading is 18pt</h1>
      <p style="font-size :12pt">The font size of this paragraph is 12pt</p>
      <h1 style="color:#ff0000; background-color:#ffff00;font-size:18pt">The font size of
this heading is 18pt</h1>
      <p style="color:green;bachground-color:yellowfont-family:Ariel;font-size is
12pt">The font size of this paragraph is 12pt</p>
    </body>
  </html>
```

Output:



ii)Internal style sheet**Source code:**

```
<!DOCTYPE HTML>

<html>

<head>

  <title>Internal style sheet</title>

  <style>

    *{margin:0;}

    body{

      color:red;

      background-color:lightgrey;

      font-family:sans serif;

      h1 { font-size:18pt;}

      p{ font-size:12pt;}

    }

  </style>

</head>

<body>

  <h1>The font size of this heading is 18pt</h1><br>

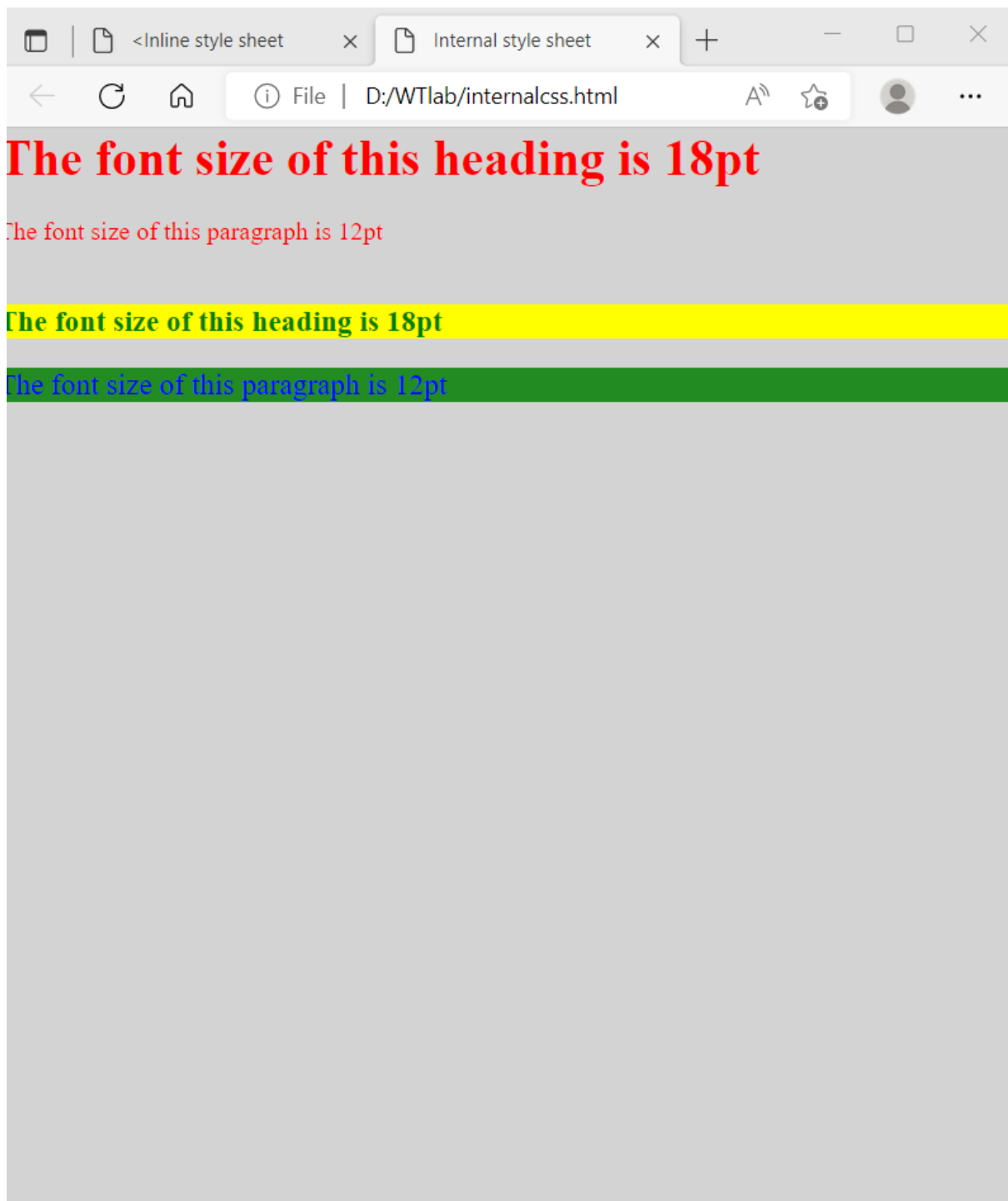
  <p>The font size of this paragraph is 12pt</p><br><br>

  <h1 style="color:green;background-color:yellow;font-size:14pt;">The font size of
this heading is 18pt</h1><br>

  <p style="color:blue;font-family:Ariel;background-color:forestgreen;font-
size:14pt">The font size of this paragraph is 12pt</p>

</body>

</html>
```

Output:

iii)External style sheet**a)Linking****Source code:**

```
<!DOCTYPE html>

<html>

  <head>

    <title>External style sheet</title>

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

  </head>

  <body>

    <h1>The size of this headin is 18pt</h1>

    <p>The size of this paragraph is 12pt</p>

    <table>

      <tr>

        <th>living being</th>

        <th>shelter</th>

      </tr>

      <tr>

        <td class="code">Lion</td>

        <td>lion lives on den</td>

      </tr>

      <tr>

        <td class="code">Man</td>

        <td>Man lives on house</td>

      </tr>

      <tr>

        <td class="code">Fish</td>

        <td>Fish lives on water</td>

      </tr>

    </table>
```

```
<td class="code">Bird</td>
      <td>Bird lives on nest</td>
    </tr>
  </table>
</body>
</html>
```

Example.css:

```
/*style sheet for sample.html*/
*{margin:0;}
body
{
  color:red;
  background-color:lightgreen;
  font-family:sans-serif;
}
h1{font-family:18pt;}
p{font-size:12pt;}
table{
  background-color:yellow;
  border-color:green;
  border-width:2px;
  border-style:solid;
}
th{
  background-color:yellow;
  font-weight:bold;
  padding:3px;
}
td{padding:3px}
```


td.code

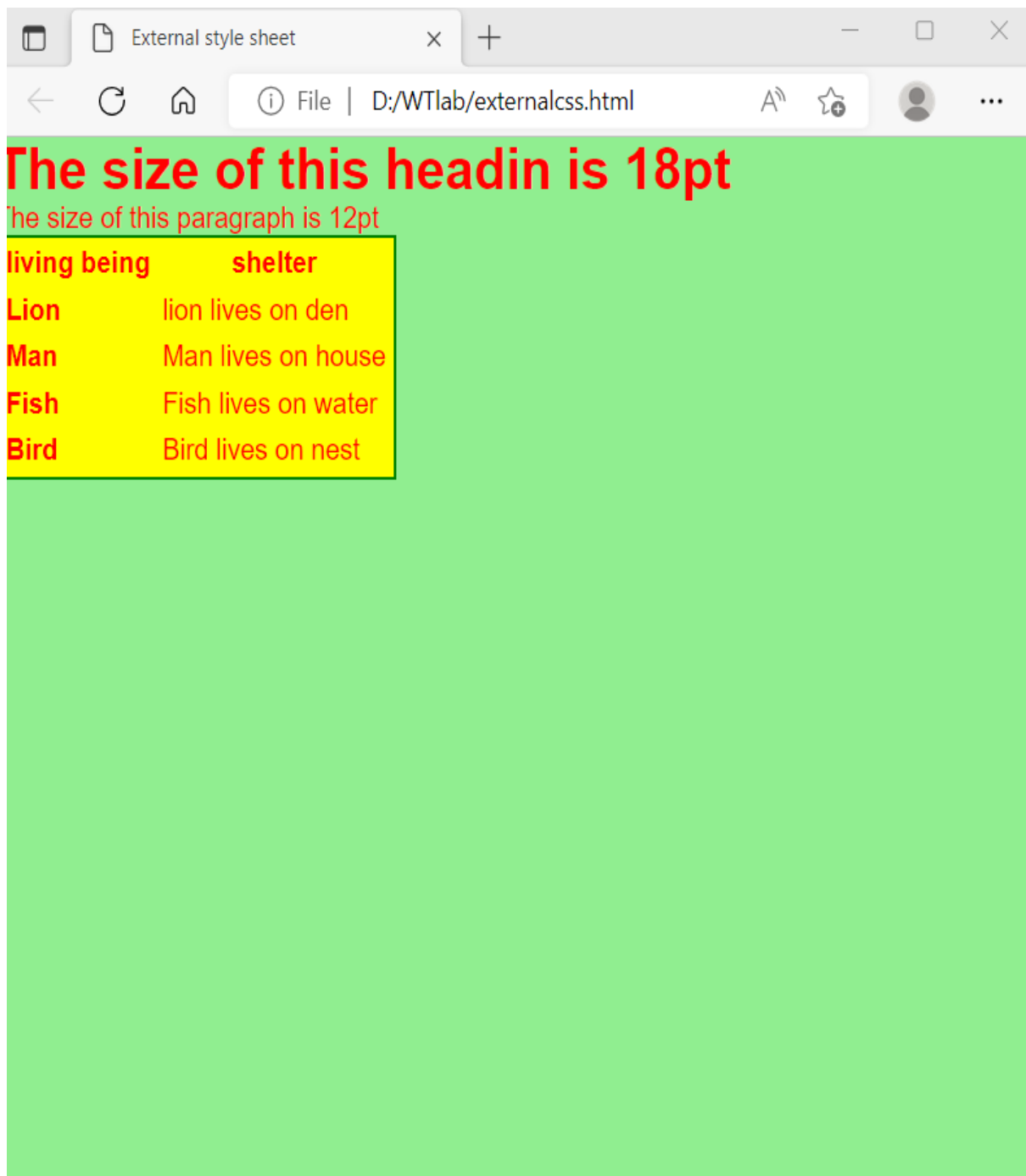
{

font-weight:bold;

font-family:sans-serif;

}

Output:



iii)External style sheet**a)Linking****Source code:**

```
<!DOCTYPE html>

<html>

  <head>

    <title>External style sheet</title>

    <style type="text/css"> @import url("example.css");

    p{color:red}

  </style>

  </head>

  <body>

    <h1>The size of this headin is 18pt</h1>

    <p>The size of this paragraph is 12pt</p>

    <table>

      <tr>

        <th>living being</th>

        <th>shelter</th>

      </tr>

      <tr>

        <td class="code">Lion</td>

        <td>lion lives on den</td>

      </tr>

      <tr>

        <td class="code">Man</td>

        <td>Man lives on house</td>

      </tr>

      <tr>

        <td class="code">Fish</td>

        <td>Fish lives on water</td>
```

```
</tr>
<tr>
  <td class="code">Bird</td>
  <td>Bird lives on nest</td>
</tr>
</table>
</body>
</html>
```

Example.css:

```
/*style sheet for sample.html*/
*{margin:0;}
body
{
  color:red;
  background-color:lightgreen;
  font-family:sans-serif;
}
h1{font-family:18pt;}
p{font-size:12pt;}
table{
  background-color:yellow;
  border-color:green;
  border-width:2px;
  border-style:solid;
}
th{
  background-color:yellow;
  font-weight:bold;
  padding:3px;
```

```
}  
td{padding:3px}  
td.code  
{  
font-weight:bold;  
font-family:sans-serif;  
}
```

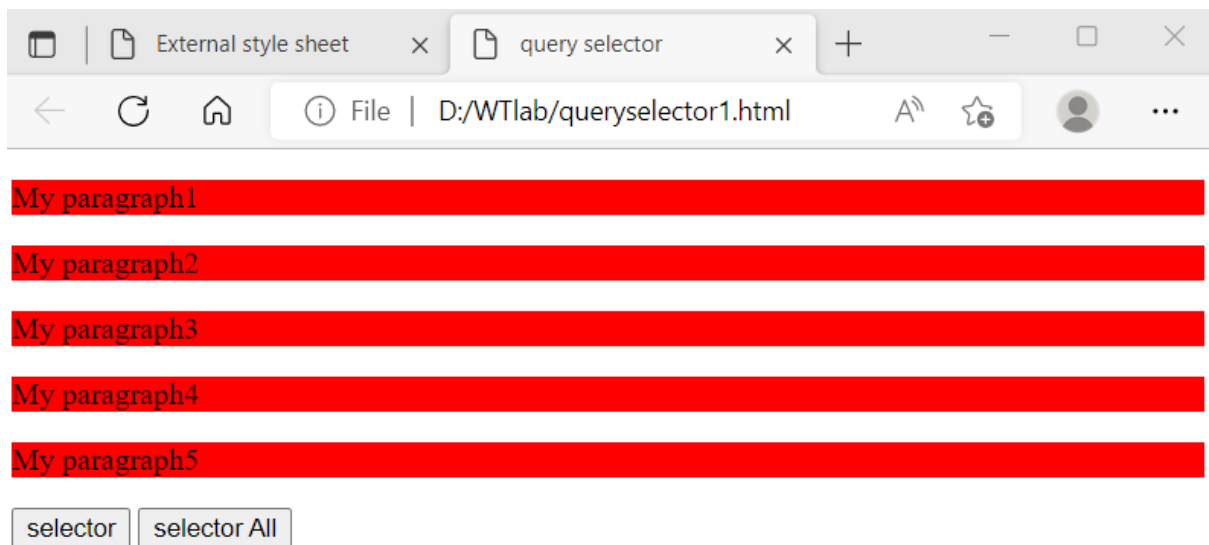
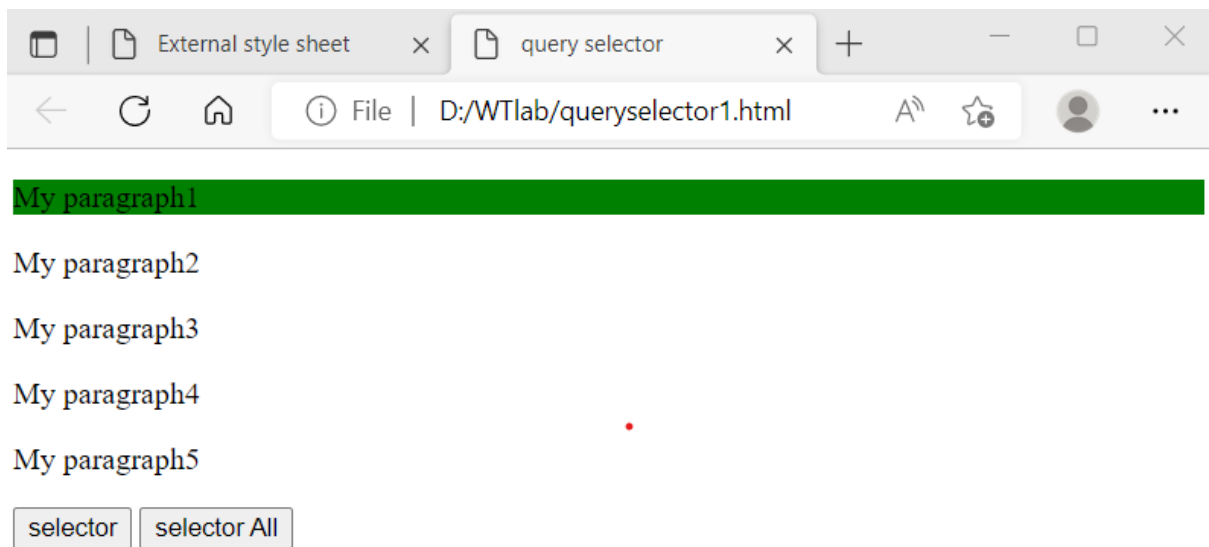
Output:



Program-4b)**Aim: Demonstrate all the styles in css3 query selector****Source code:**

```
<!DOCTYPE HTML>

<html>
  <head>
    <title>query selector</title>
  </head>
  <script type="text/javascript">
    function changecss()
    {
      document.querySelector("p").style.background="green";
    }
    function changecssall()
    {
      list=document.querySelectorAll("p");
      for(var i=0;i<list.length;i++)
      {
        list[i].style.background="red";
      }
    }
  </script>
</head>
<body>
  <p>My paragraph1</p>
  <p>My paragraph2</p>
  <p>My paragraph3</p>
  <p>My paragraph4</p>
  <p>My paragraph5</p>
  <button onclick="changecss()">selector</button>
  <button onclick="changecssall()">selector All</button>
</body>
</html>
```

Output:

Program-5a)**Aim: Write a javascript program to demonstrate the Mouse events****Source code:**

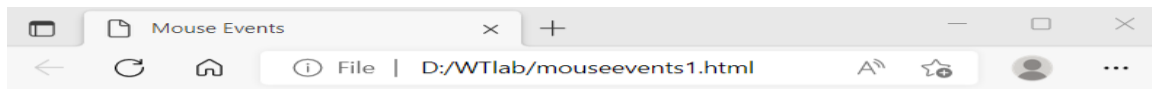
```
<!DOCTYPE html>
<html>
  <head>
    <title>Mouse Events</title>
    <script type="text/javascript">
      function mouseclick()
      {
        document.getElementById("click").style.background="pink";
      }
      function mousedbclick()
      {
        document.getElementById("dblclick").style.background="blue";
      }
      function mouseup()
      {
        document.getElementById("up").style.background="green";
      }
      function mousedown()
      {
        document.getElementById("down").style.background="yellow";
      }
      function mouseover()
      {
        alert("mouse over raised");
      }
      function mouseout()
      {
        alert("mouse out raised");
      }
      function mousewheel()
      {
        alert("mouse wheel raised");
      }
      function mousemove()
      {
        alert("mouse move raised");
      }
    </script>
  </head>
  <body>
    <h1 id="click" onclick="mouseclick()">Mouse click</h1>
    <h1 id="dblclick" onclick="mousedbclick()">Mouse dblclick</h1>
```

```
<h1 id="up" onclick="mouseup()">Mouse up</h1>
<h1 id="down" onclick="mousedown()">Mousedown</h1>




</body>
</html>
```

Output:

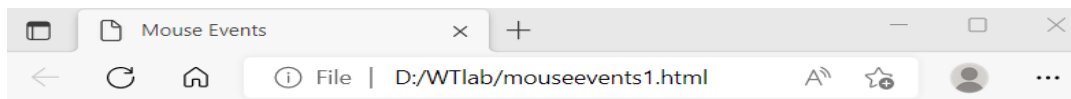


Mouse click

Mouse dblclick

Mouse up

Mousedown

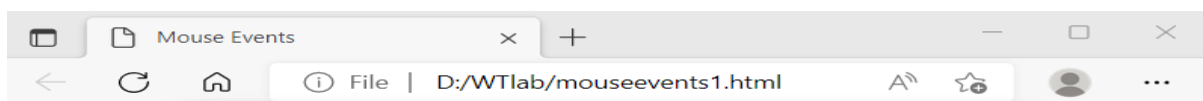


Mouse click

Mouse dblclick

Mouse up

Mousedown



Mouse click

Mouse dblclick

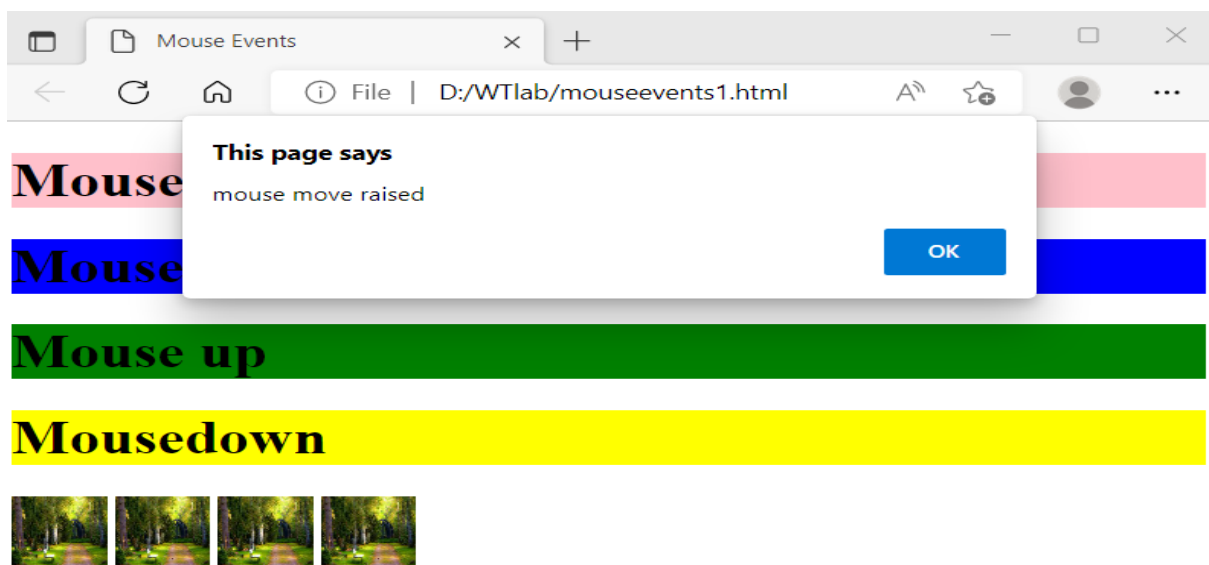
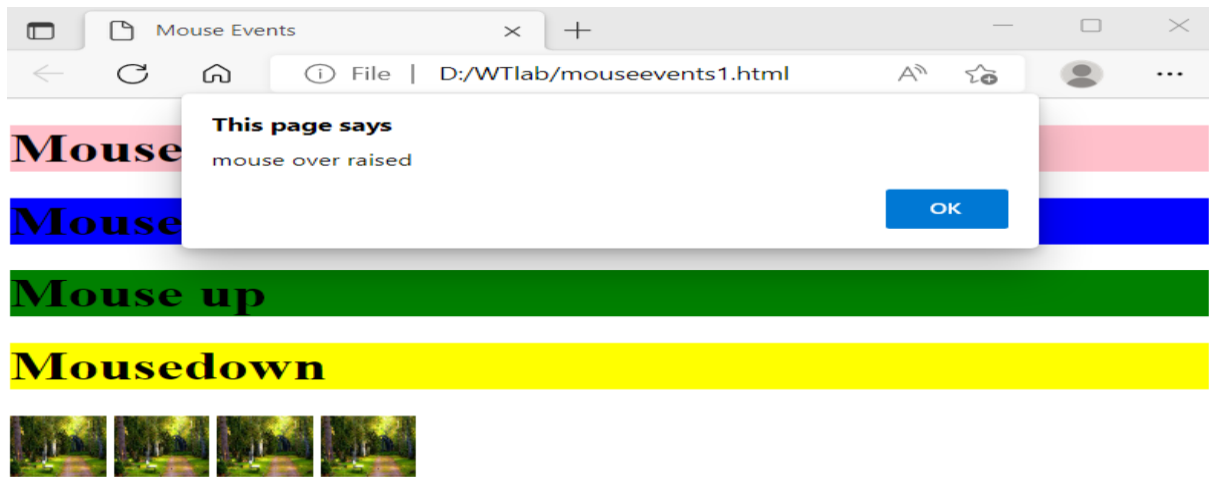
Mouse up

Mousedown



This page says
mouse out raised

OK



Program-5b)**Aim: Write a javascript program to demonstrate the Form events****Source code:**

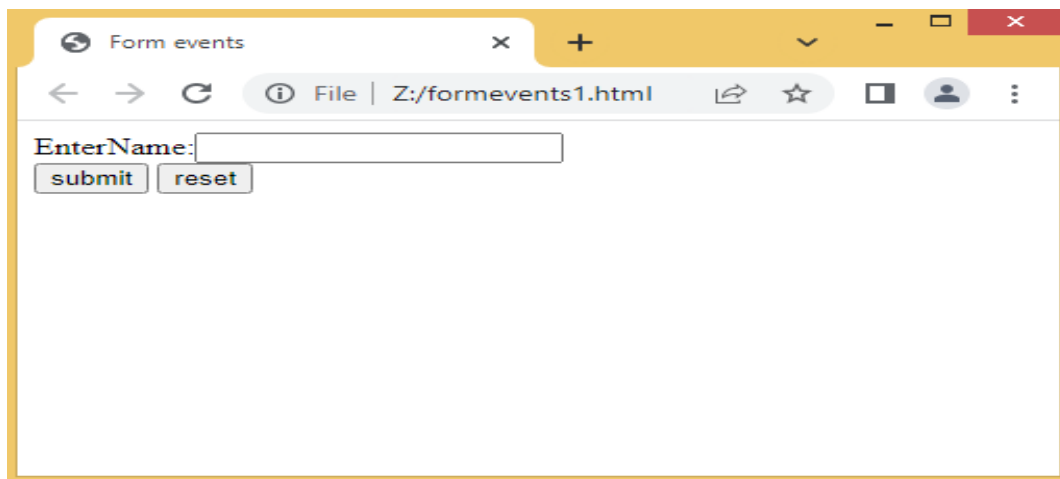
```
<!DOCTYPE html>
<html>
  <head>
    <title>Form events</title>
    <script type="text/javascript">
      function inpfocus()
      {
        document.getElementById("uname").style.background="pink"
      }
      function inpblur()
      {
        document.getElementById("uname").style.background="orange"
      }
      function inpinvalid()
      {
        document.getElementById("msg").innerHTML="u are not submitting the form";
      }
      function inpselect()
      {
        alert("u selected the content");
      }
      function inpsubmit()
      {
        alert("submit is raised");
      }
      function inpreset()
      {
        alert("reset is raised");
      }
      function inpchange()
      {
        alert("u changed the content");
      }
    </script>
  </head>
  <body>
    <form>
      EnterName:<input id="uname" type="text" onfocus="inpfocus()" onblur="inpblur()"
oninvalid="inpinvalid()" required onselect="inpselect()" onsubmit="inpsubmit()"
onreset="inpreset()" onchange="inpchange()";>
      <br><input type="submit" value="submit">
      <input type="reset" value="reset">
      <p id="msg"></p>
    </form>
  </body>
</html>
```

</form>

</body>

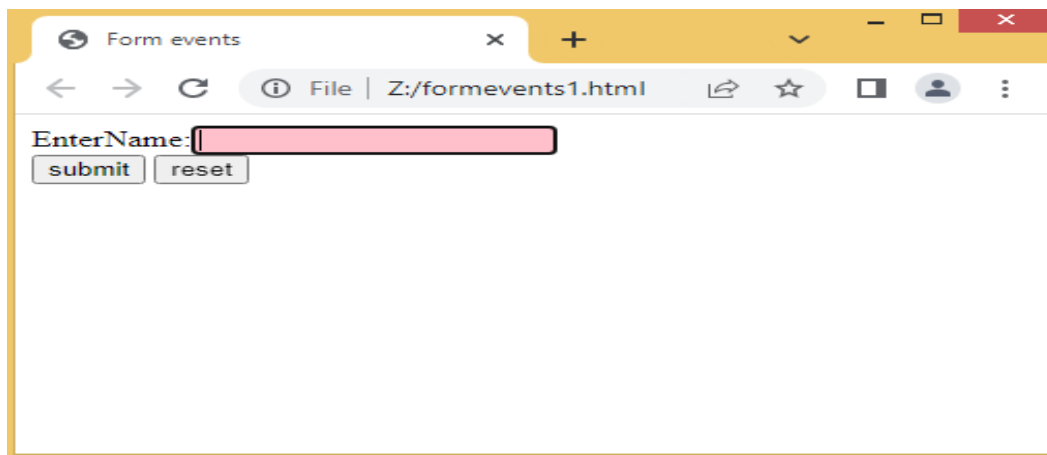
</html>

Output:



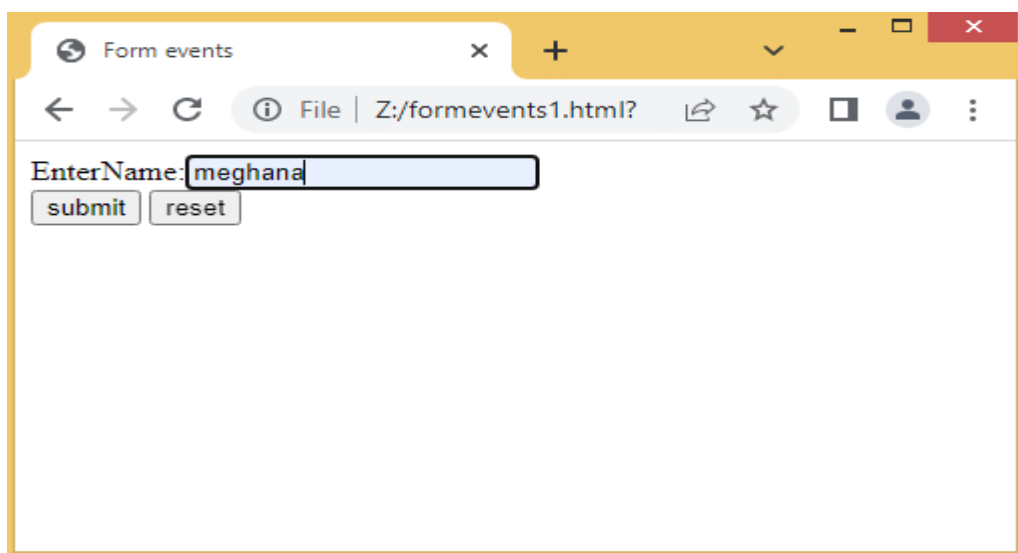
Form events

EnterName:



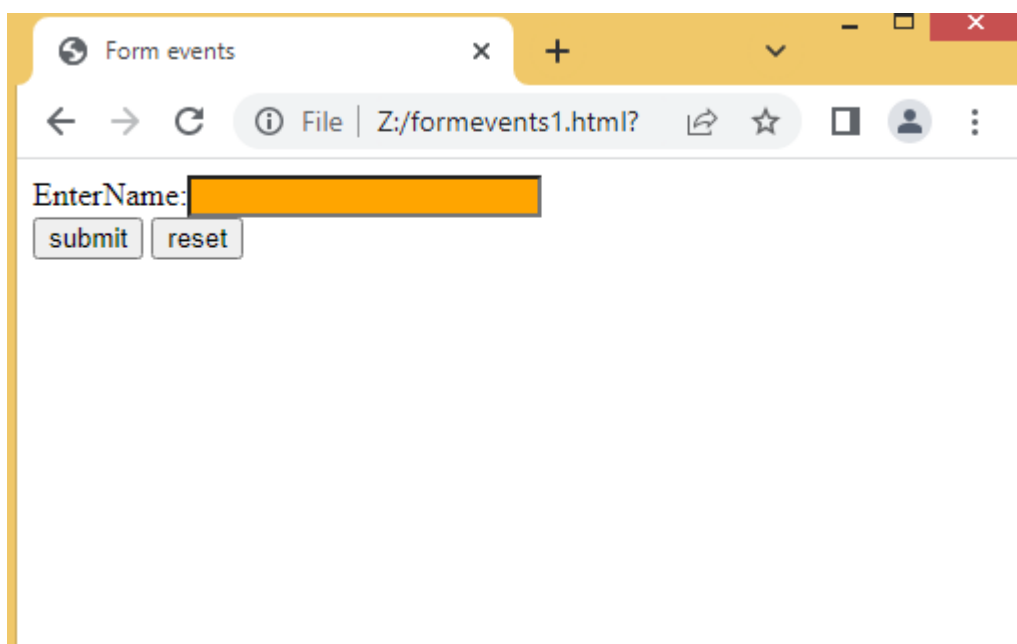
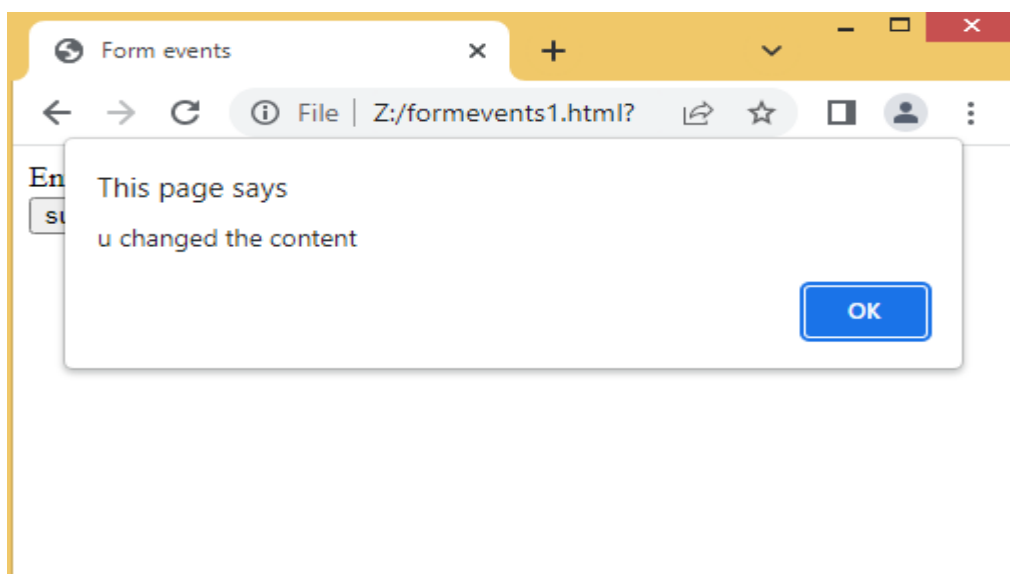
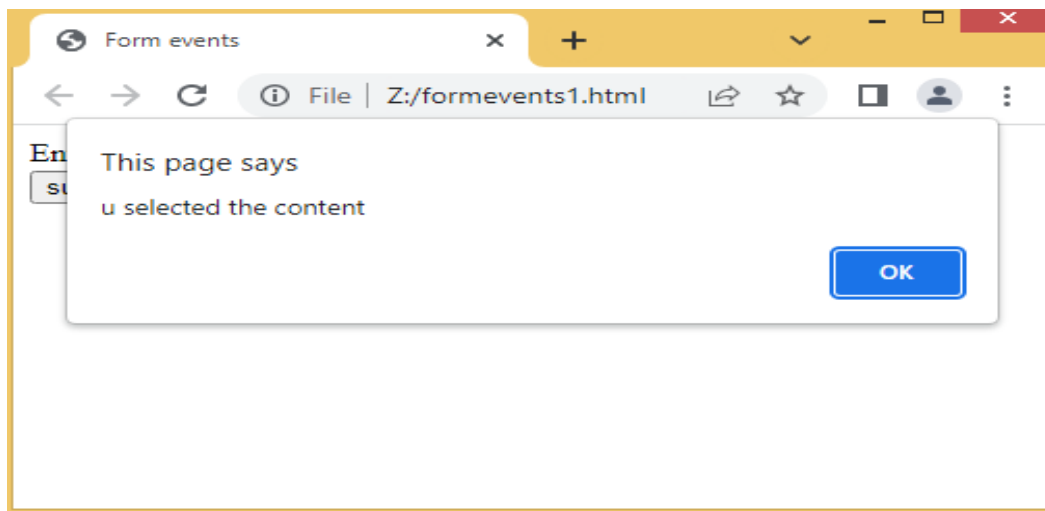
Form events

EnterName:



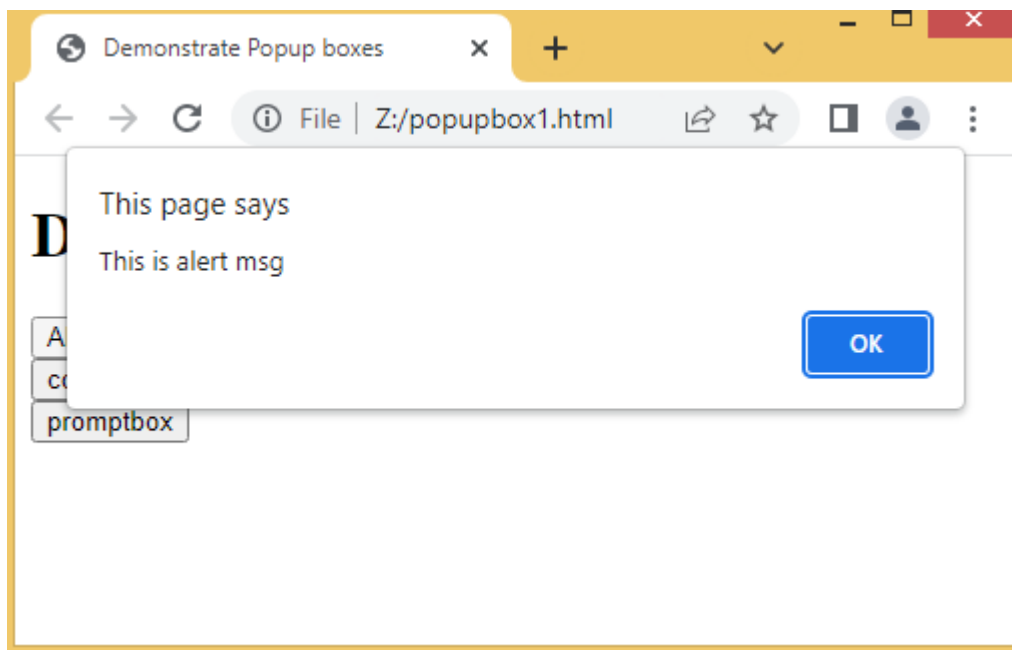
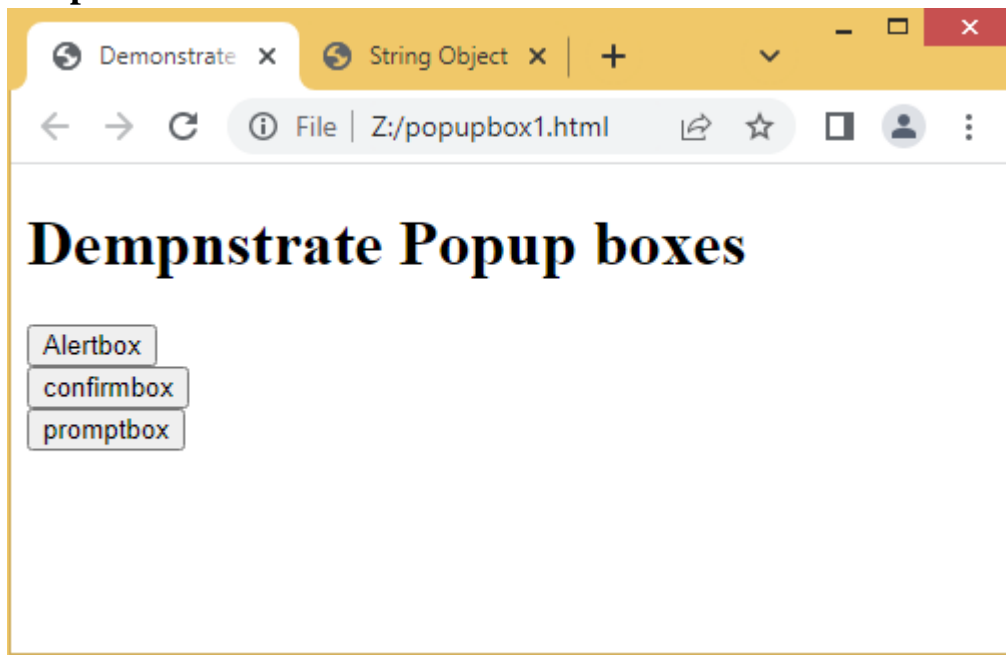
Form events

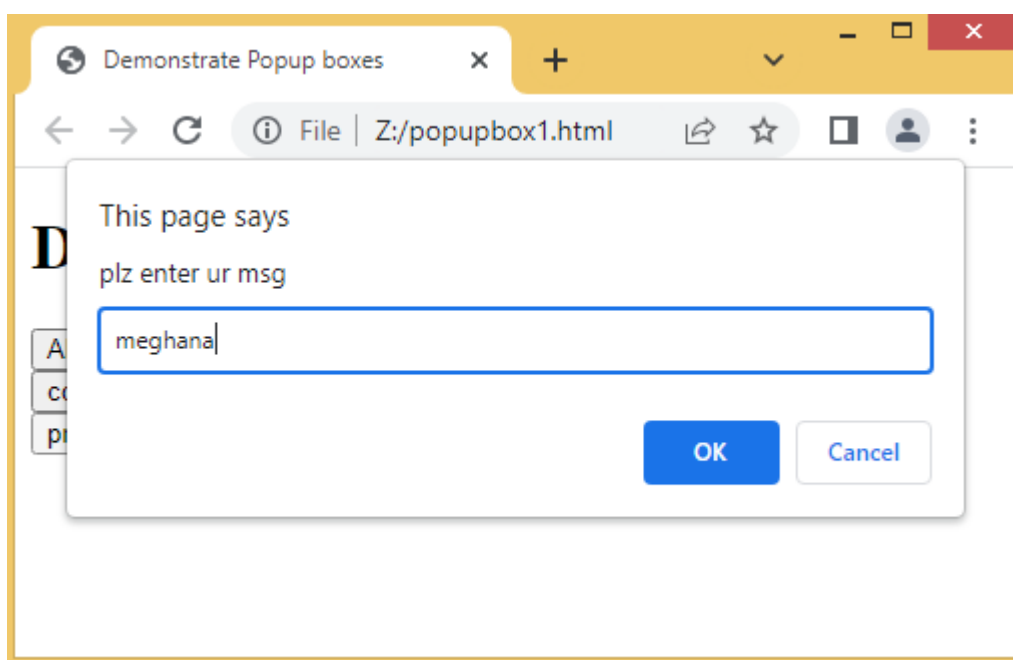
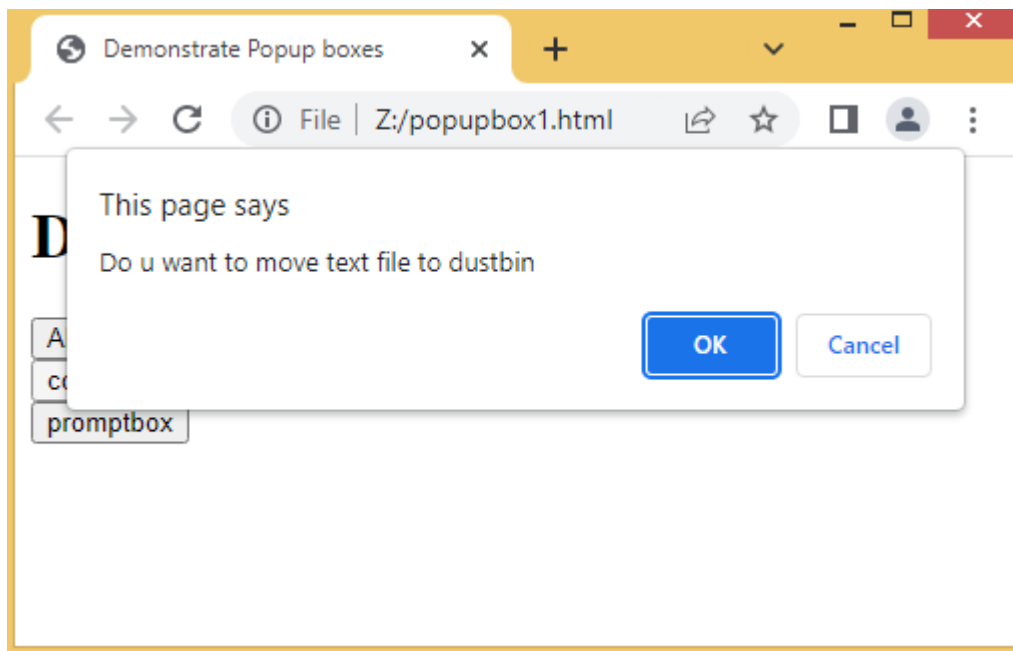
EnterName:



Program-5c)**Aim: Write a javascript program to demonstrate the pop-ups****Source code:**

```
<!DOCTYPE html>
<html>
<head>
  <title>Demonstrate Popup boxes</title>
  <script type="text/javascript">
    function alertmsg()
    {
      alert("This is alert msg");
    }
    function confirmmsg()
    {
      confirm("Do u want to move text file to dustbin");
    }
    function promptmsg()
    {
      var msg=prompt("plz enter ur msg");
      Document.getElementById("pmsg").innerHTML="yourmsg:"+msg;
    }
  </script>
</head>
<body>
  <h1>Dempnstrate Popup boxes</h1>
  <button onClick="alertmsg()">Alertbox</button><br>
  <button onClick="confirmmsg()">confirmbox</button><br>
  <button onClick="promptmsg()">promptbox</button>
  <p id="pmsg"></p>
</body>
</html>
```

Output:



Program-6a)**Aim: Write a javascript program to demonstrate the String objects.****Source code:**

```
<!DOCTYPE html>
<html>
  <head>
    <title> String Object</title>
  </head>
<body >
  <script type="text/javascript">
    document. write("<h2> methods in String Objects </h2>");
    var str= "welcome to html5";
    var str1= "welcome to JS";
        document.write("Length of str:"+str.length);
        document.write("<br>Character at 5 position:"+str.charAt(5));
        document.write("<br>Concat str & str1:"+str.concat(str1));
        document.write("<br>Index of 'm' in str:"+str.indexOf('m'));
        document.write("<br> last Index of 'm' in str:"+str.lastIndexOf('m'));
    document.write("<br>Replace html5 to css3 in str:"+str.replace("html5","css3"));
    document.write("<br>slice the test from 0-7 in str:"+str.slice(0,7));
    document.write("<br>split the str based on space:"+str.split(" "));
    document.write("<br>Upper case of str text:"+str.toUpperCase());
    document.write("<br>lower case of str text:"+str.toLowerCase());
    document.write("<h2> Wrapper methods in String Objects </h2>");
    document.write("small text:"+str.small());
    document.write("<br>Big text:"+str.big());
    document.write("<br>Bold text:"+str.bold());
    document.write("<br>Font color:"+str.fontcolor("pink"));
    document.write("<br>Font size:"+str.fontSize("10px"));
    document.write("<br>Italic text:"+str.italics());
    document.write("<br>Link:"+str.link());
    document.write("<br>strike-out text:"+str.strike());
    document.write("<br>subscript:"+str.sub());
    document.write("<br>supscript:"+str.sup());
    document.write("<br>Text Blink:"+str.blink());

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

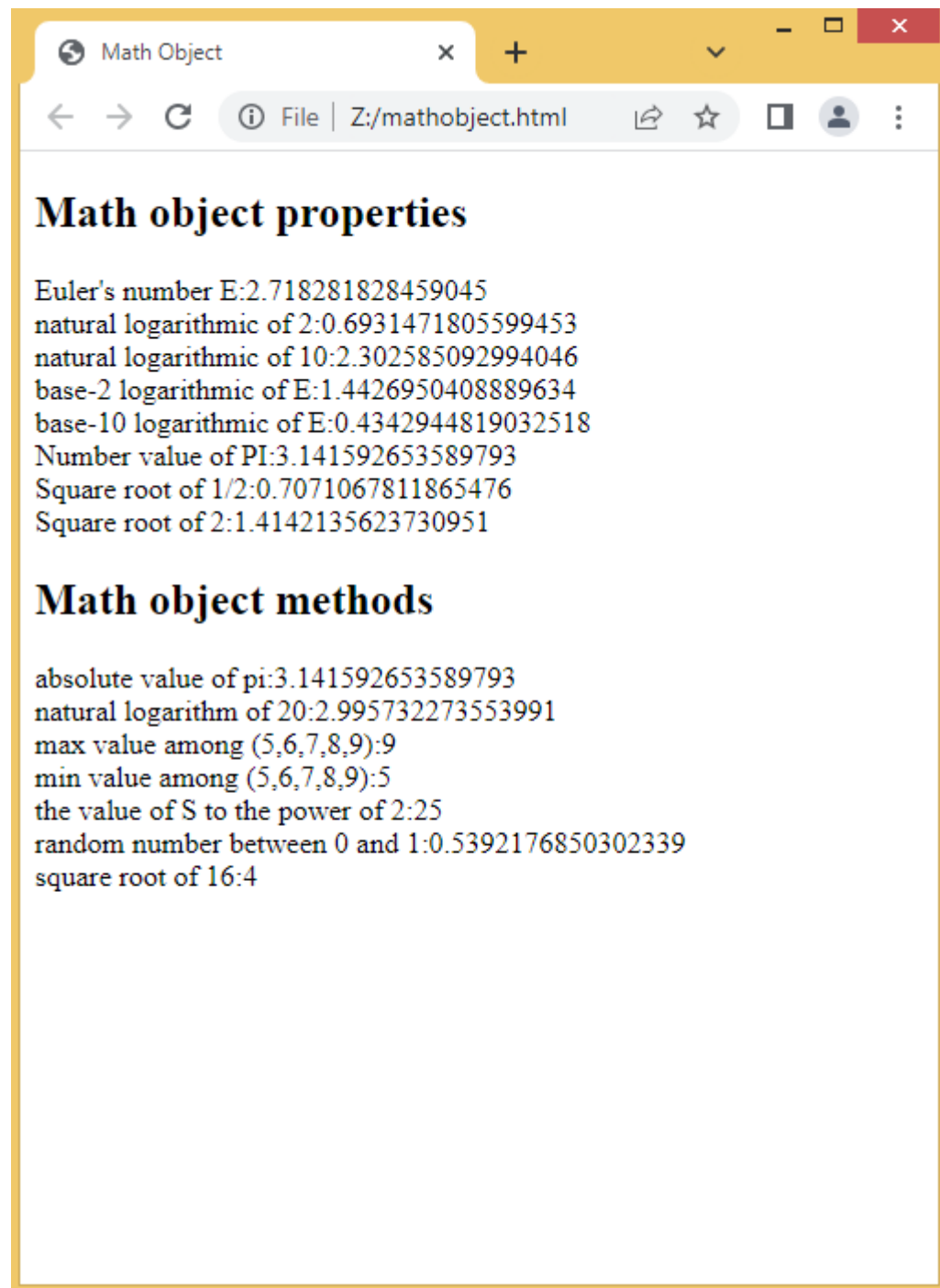
Output:



Program-6b)**Aim: Write a javascript program to demonstrate the Math object.****Source code:**

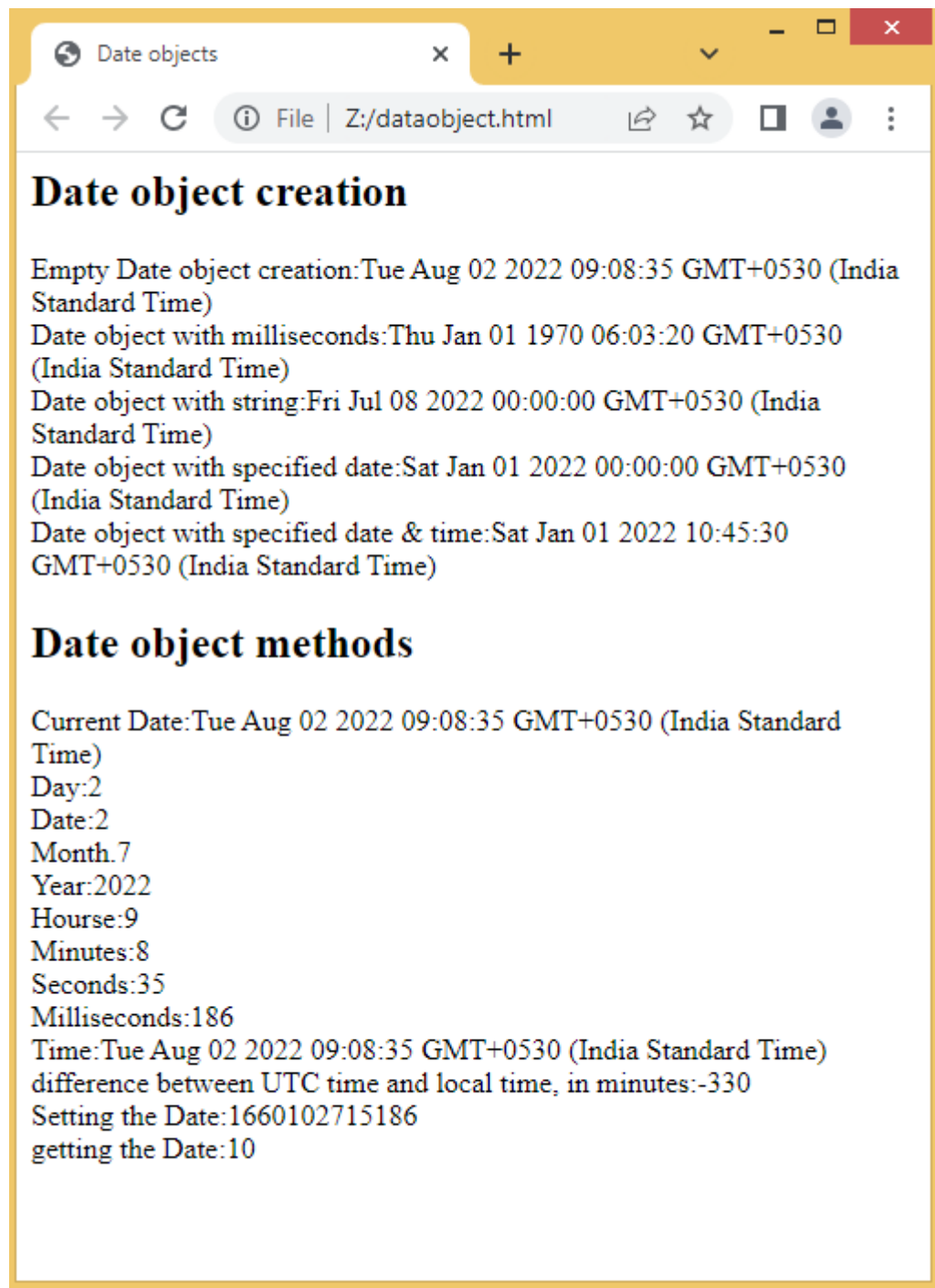
```
<!DOCTYPE html>
<html>
  <head>
    <title> Math Object</title>
  </head>
<body >
  <script type="text/javascript">
    document.write("<h2>Math object properties</h2>");
    document.write("Euler's number E:"+Math.E);
    document.write("<br>natural logarithmic of 2:"+Math.LN2);
    document.write("<br>natural logarithmic of 10:"+Math.LN10);
    document.write("<br>base-2 logarithmic of E:"+Math.LOG2E);
    document.write("<br> base-10 logarithmic of E:"+Math.LOG10E);
    document.write("<br>Number value of PI:"+Math.PI);
    document.write("<br>Square root of 1/2:"+Math.SQRT1_2);
    document.write("<br> Square root of 2:"+Math.SQRT2);
    document.write("<h2>Math object methods</h2>");
    document.write("absolute value of pi:"+Math.abs(Math.PI));
    document.write("<br>natural logarithm of 20:"+Math.log(20));
    document.write("<br>max value among (5,6,7,8,9):"+Math.max(5,6,7,8,9));
    document.write("<br>min value among (5,6,7,8,9):"+Math.min(5,6,7,8,9));
    document.write("<br>the value of S to the power of 2:"+Math.pow (5,2));
    document.write("<br>random number between 0 and 1:"+Math.random());
    document.write("<br>square root of 16:"+Math.sqrt(16));
  </script>
</body>
</html>
```

Output:



Program-6c)**Aim: Write a javascript program to demonstrate the Date object.****Source code:**

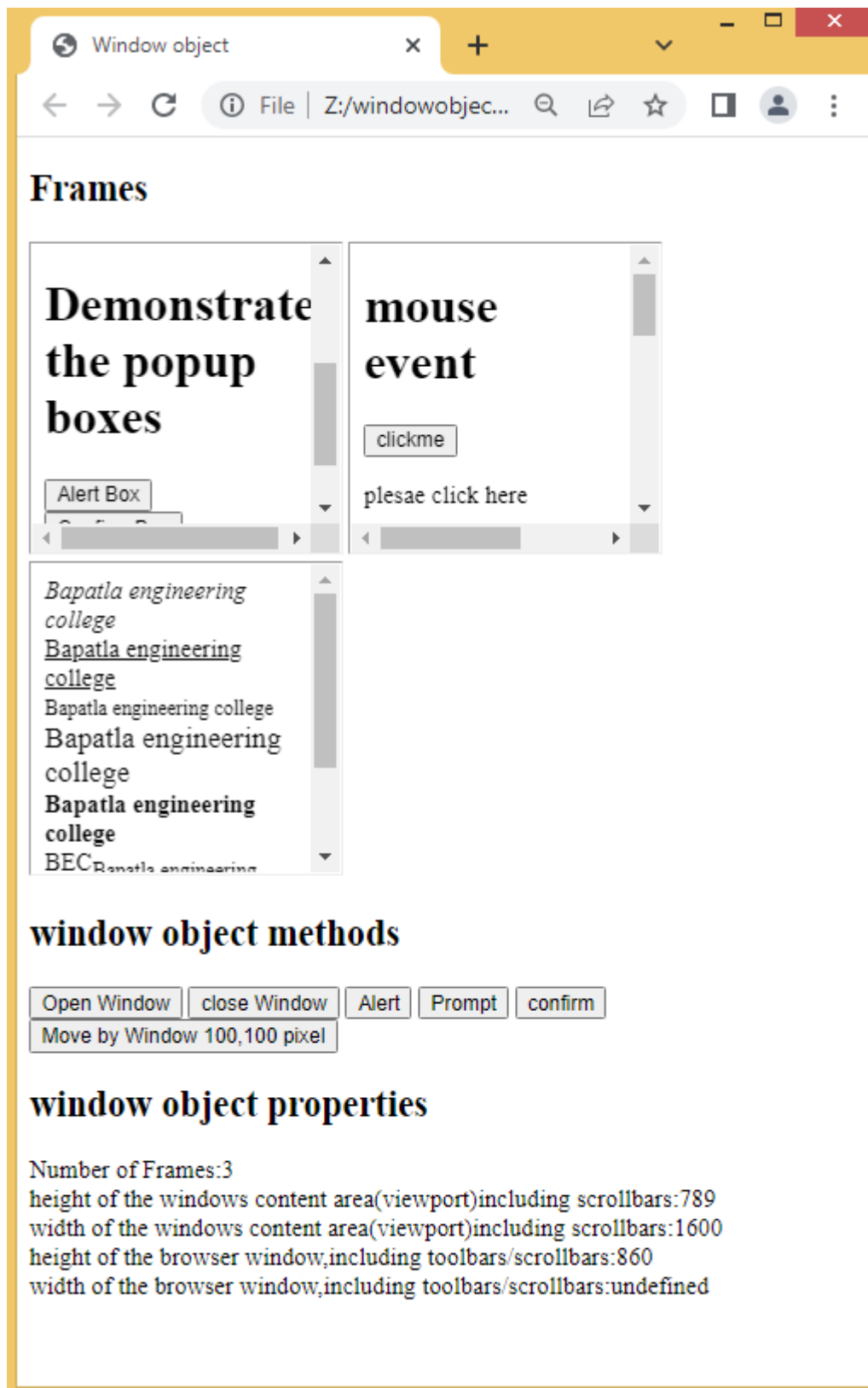
```
<!DOCTYPE html>
<html>
  <head>
    <title> Date objects</title>
  </head>
  <body>
    <script type="text/javascript">
      var d1= new Date();
      var d2=new Date(2000000);
      var d3=new Date("july 08,2022");
      var d4=new Date(2022,00,01);
      var d5=new Date(2022,00,01,10,45,30);
      document.write("<h2>Date object creation</h2>");
      document.write("Empty Date object creation:"+d1);
      document.write("<br>Date object with milliseconds:"+d2);
      document.write("<br>Date object with string:"+d3);
      document.write("<br>Date object with specified date:"+d4);
      document.write(" <br> Date object with specified date & time:"+d5);
      document.write("<h2>Date object methods</h2>");
      document.write("Current Date:"+Date(d1.valueOf()));
      document.write("<br>Day:"+d1.getDay());
      document.write("<br>Date:"+d1.getDate());
      document.write("<br>Month:"+d1.getMonth());
      document.write("<br>Year:"+d1.getFullYear());
      document.write("<br>Hourse:"+d1.getHours());
      document.write("<br>Minutes:"+d1.getMinutes());
      document.write("<br>Seconds:"+d1.getSeconds());
      document.write("<br>Milliseconds:"+d1.getMilliseconds());
      document.write("<br>Time:"+Date(d1.getTime()));
      document.write("<br>difference between UTC time and local time, in
        minutes:"+d1.getTimezoneOffset());
      document.write("<br>Setting the Date:"+d1.setDate(10));
      document.write("<br>getting the Date:"+d1.getDate());
    </script>
  </body>
</html>
```


Output:

Program-7a)**Aim: Write a javascript program to demonstrate Window objects****Source code:**

```
<!DOCTYPE html>
<html>
    <head>
        <title>Window object</title>
    </head>
    <body>
        <h2>Frames</h2>
        <iframe src="popup.html" width="200" height="200"></iframe>
        <iframe src="mouse.html" width="200" height="200"></iframe>
        <iframe src="" width="200" height="200"></iframe>
        <h2>window object methods</h2>
        <button id="but1" onclick="win=window.open()">Open Window</button>
        <button id="but1" onclick="win.close()">close Window</button>
        <button id="but1" onclick="window.alert('Alert Message')">Alert</button>
        <button id="but1" onclick="window.prompt('prompt Message')">Prompt</button>
        <button id="but1" onclick="window.confirm('confirm message')">confirm</button>
        <button id="but1" onclick="win.moveBy(100,100)">Move by Window 100,100
            pixel</button>
        <h2>window object properties</h2>
        <script type="text/javascript">
            document.write("Number of Frames:"+window.length);
            window.frames[2].location="physical.html";
            document.write("<br>height of the windows content area(viewport)including
                scrollbars:"+window.innerHeight);
            document.write("<br>width of the windows content area(viewport)including
                scrollbars:"+window.innerWidth);
            document.write("<br>height of the browser window,including
                toolbars/scrollbars:"+window.outerHeight);
            document.write("<br>width of the browser window,including
                toolbars/scrollbars:"+window.outerWidth);
        </script>
    </body>
</html>
```

Output:



Program-7b)**Aim: Write a javascript program to demonstrate document objects****Source code:**

```
<!DOCTYPE HTML>
<html>
  <head>
    <title>Document Object</title>
  </head>
<body>
  <h2>Images</h2>
  Image 1:
  Image 2:
  <h2>Links</h2>
  <a id="link1" href="mouse.html">Page1</a>
  <a id="link2" href="formev.html">Page2</a>
  <h2>Docuemnt object methods</h2>
  <button onclick="open_doc()">Open Docuemnt</button>
<script type="text/javascript">
  document.write("<h2>Document object collection</h2>");
  document.write("Number of images:"+document.images.length);
  document.write("<br>Number of links:"+document.links.length);
  document.write("<h2>Document object properties</h2>");
  document.write("Title of docuemnt:"+document.title);
  document.write("<br>URL of docuemnt:"+document.URL);
  document.write("<br> state of docuemnt:"+document.readyState);
  document.write("<br>lastmodified of docuemnt:"+document.lastModified);
  function open_doc(){
    var mywindow = window.open();
    mywindow.document.open();
    mywindow.document.write("<h1>Welcome to document</h1>");
    mywindow.document.close();
  }
</script>
</body>
</html>
```

Output:



Program-8a)

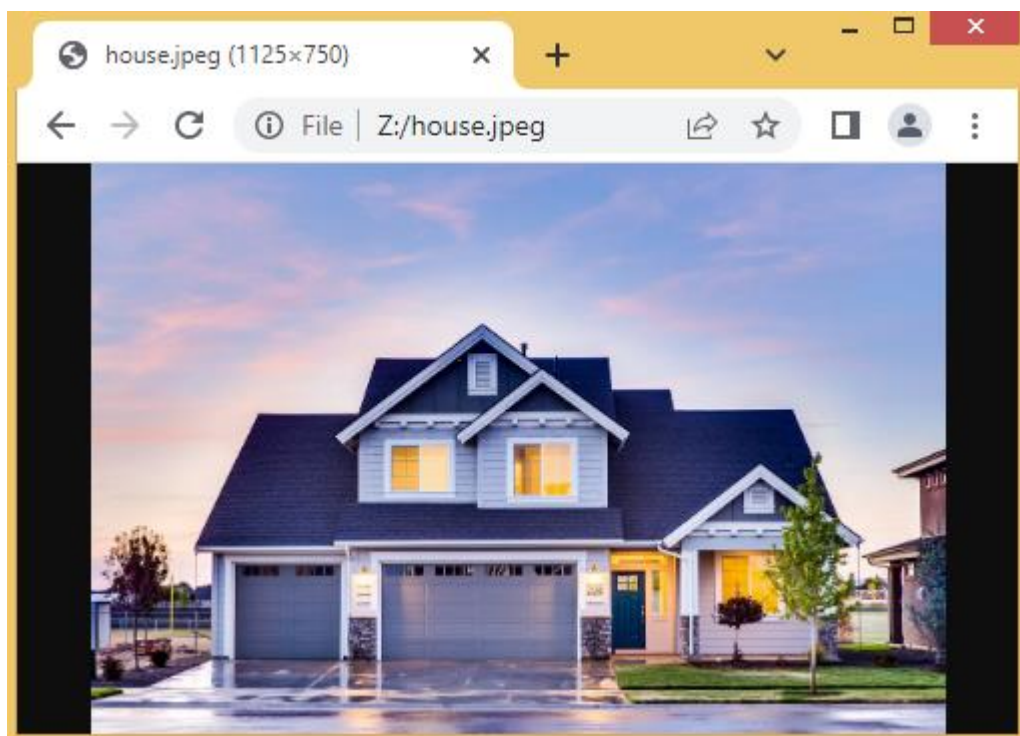
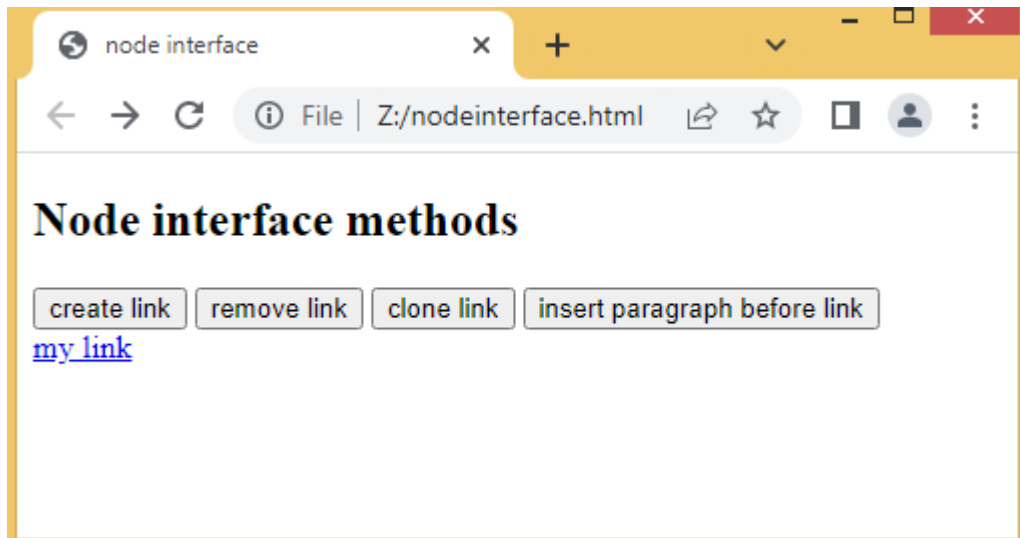
Aim: Write a javascript program to create ,delete,duplicate,and insert a node before element using docnode interface.

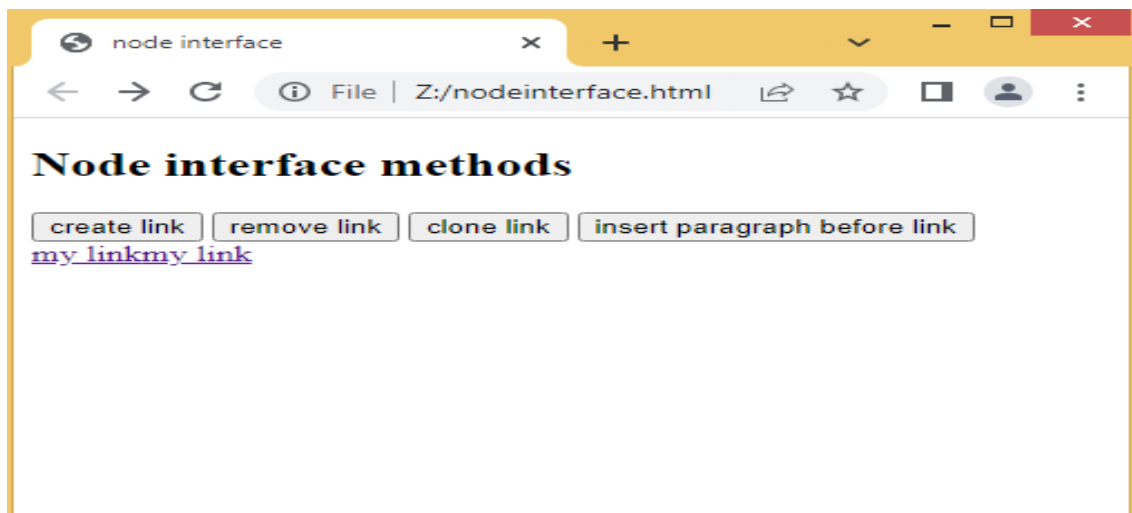
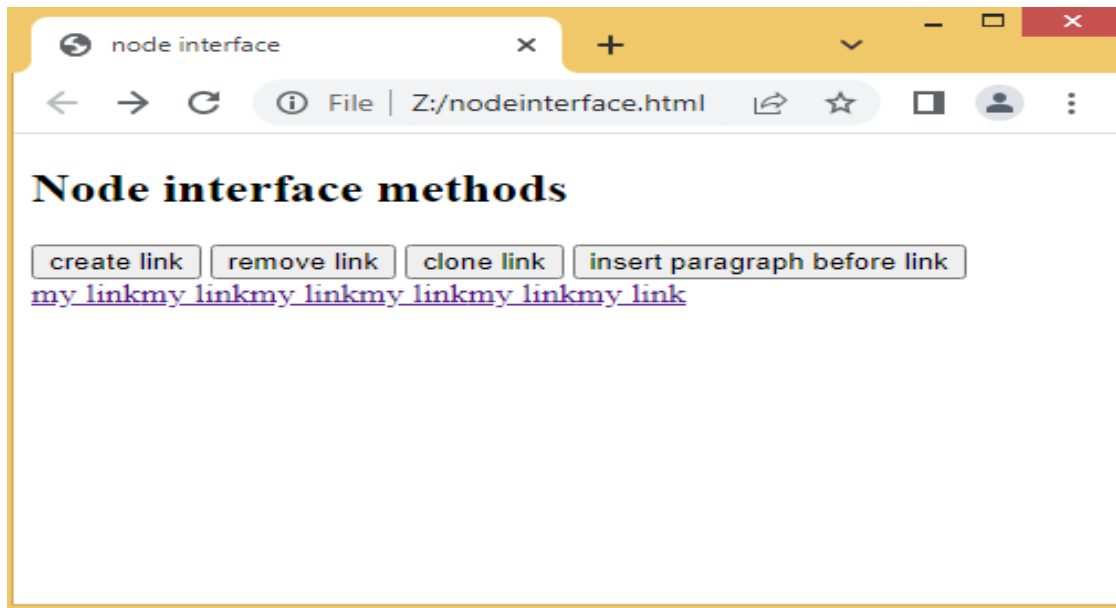
Source code:

```
<!DOCTYPE html>
<html>
  <head>
    <title>node interface</title>
    <script type="text/javascript">
      function create_node()
      {
        var link=document.createElement("a");
        link.setAttribute("id","li");
        link.setAttribute("href","workplace.jpeg");
        link.setAttribute("width","100");
        link.setAttribute("height","100");
        text=document.createTextNode("my link");
        link.appendChild(text);
        document.body.appendChild(link);
      }
      function delete_node()
      {
        child=document.getElementById("li");
        document.body.removeChild(child);
      }
      function clone_node()
      {
        link=document.getElementById("li");
        c=link.cloneNode(true);
        document.body.appendChild(c);
      }
      function insert_node()
      {
        link=document.getElementById("l1");
        para=document.createElement("p");
        para.setAttribute("id","p1");
        text=document.createTextNode("my paragraph before link");
        para.appendChild(text);
        document.body.insertBefore(para,link);
      }
    </script>
  </head>
  <body>
    <div id="d">
```

```
<h2>Node interface methods</h2>
<button onclick="create_node()">create link</button>
<button onclick="delete_node()">remove link</button>
<button onclick="clone_node()">clone link</button>
<button onclick="insert_node()">insert paragraph before link</button>
</div>
</body>
</html>
```

Output:





Program-8b)**Aim: Develop simple web application calculator****Source code:**

```
<!DOCTYPE HTML>
<html>
  <head><title>calculator</title>
    <script type="text/javascript">
      function dis(val)
      {
        document.getElementById("result").value+=val
      }
      function solve()
      {
        var x = document.getElementById("result").value
        var y = eval(x)
        document.getElementById("result").value = y
      }
      function clr()
      {
        document.getElementById("result").value = ""
      }
    </script>
  </head>
  <body>
    <table >
      <tr>
        <td colspan="3"><input type="text" id="result" ></td>
        <td><input type="button" value="c" onclick="clr()"/> </td>
      </tr>
      <tr>
        <td><input type="button" value="1" onclick="dis('1')"/> </td>
        <td><input type="button" value="2" onclick="dis('2')"/> </td>
        <td><input type="button" value="3" onclick="dis('3')"/> </td>
        <td><input type="button" value="/" onclick="dis('/')"/> </td>
      </tr>
      <tr>
        <td><input type="button" value="4" onclick="dis('4')"/> </td>
        <td><input type="button" value="5" onclick="dis('5')"/> </td>
        <td><input type="button" value="6" onclick="dis('6')"/> </td>
        <td><input type="button" value="-" onclick="dis('-')"/> </td>
      </tr>
      <tr>
        <td><input type="button" value="7" onclick="dis('7')"/> </td>
        <td><input type="button" value="8" onclick="dis('8')"/> </td>
        <td><input type="button" value="9" onclick="dis('9')"/> </td>
        <td><input type="button" value="+" onclick="dis('+')"/> </td>
      </tr>
    </table>
  </body>
</html>
```

```
</tr>
<tr>
  <td><input type="button" value="." onclick="dis('.')"/> </td>
  <td><input type="button" value="0" onclick="dis('0')"/> </td>
  <td><input type="button" value="=" onclick="solve()"/> </td>
  <td><input type="button" value="*" onclick="dis('*')"/> </td>
</tr>
</table>
</body>
</html>
```

Output:

