



KARPAGAM ACADEMY OF HIGHER EDUCATION
(Deemed to be University)
(Established Under Section 3 of UGC Act, 1956)
DEPARTMENT OF CS, CA & IT
SYLLABUS

Semester – II

19CSU213

**COMPUTER NETWORKS AND INTERNET
TECHNOLOGIES - PRACTICAL**

3H – 2C

Instruction Hours / week: L: 0 T: 0 P: 3 Marks: Internal: 40 External: 60 Total: 100
End Semester Exam: 3 Hours

Course Objectives

- To study the basics of Computer Networks.
- To study and compare various Network architectures and fundamental protocols.
- To learn about networking protocol and OSI model.
- To learn various transmission media.
- To understand the topologies of networks, layered architecture (OSI and TCP/IP) and protocol suites.
- To understand the principles of creating an effective web page.
- To develop skills in analyzing the usability of a website.
- To learn the language of HTML, DHTML, XML and PHP.

Course Outcomes (COs)

1. Gain the skills and project-based experience needed for entry into web design and development careers.
2. Develop awareness and appreciation of the many ways that people access the web, and will be able to create standards-based websites that can be accessed by the full spectrum of web access technologies
3. Select and apply markup languages for processing, identifying, and presenting of information in web pages.
4. Create and manipulate web media objects using editing software.

List of Programs

1. Create HTML document with following formatting – Bold, Italics, Underline, Colors, Headings, Title, Font and Font Width, Background, Paragraph, Line Brakes, Horizontal Line, Blinking text as well as marquee text.
2. Create HTML document with Ordered and Unordered lists, Inserting Images, Internal and External linking
3. Create HTML document with Table

4. Create Form with Input Type, Select and Text Area in HTML.
5. Create an HTML containing Roll No., student's name and Grades in a tabular form.
6. Create an HTML document (having two frames) which will appear as follows

About	This frame would show the contents according to the link clicked by the user on the left frame.
Department 1	
Department 2	
Department 3	

7. Create an HTML document containing horizontal frames as follows

Department Names (could be along with Logos)
Contents according to the Link clicked

8. Create HTML documents (having multiple frames) in the following three formats

Frame1
Frame2

Frame1	
Frame2	Frame3

9. Create a form using HTML which has the following types of controls:

- V. Text Box
- VI. Option/radio buttons
- VII. Check boxes
- VIII. Reset and Submit buttons

List of Practical using JavaScript: Create event driven program for following:

10. Print a table of numbers from 5 to 15 and their squares and cubes using alert.
11. Print the largest of three numbers. 81
12. Find the factorial of a number n.
13. Enter a list of positive numbers terminated by Zero. Find the sum and average of these numbers.
14. A person deposits Rs 1000 in a fixed account yielding 5% interest. Compute the amount in the account at the end of each year for n years.
15. Read n numbers. Count the number of negative numbers, positive numbers and zeros in the list.

STAFF

HOD

KarpagamAcademy of Higher Education

(Deemed to be University)

(Established Under section 3 of UGC act 1956)

Pollachi Main Road, Eachanari post,
Coimbatore-641021.



DEPARTMENT OF CS, CA & IT

**COMPUTER NETWORKS AND INTERNET TECHNOLOGIES –
PRACTICAL**

I BSC COMPUTER SCIENCE -C

NAME : _____

REG.NO : _____

KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under section 3 of UGC act 1956)

Coimbatore-21

DEPARTMENT OF CS, CA & IT



BONAFIDE CERTIFICATE

REG NO:

This is to certify that this is a bonafide record work done by _____ of **I B.Sc. (Computer Science)-C** during the academic year November 2019 – March 2020 and submitted for the practical examination in **COMPUTER NETWORKS AND INTERNET TECHNOLOGIES– PRACTICAL (19CSU213)** held on _____

Staff-in-charge

Head of the Department

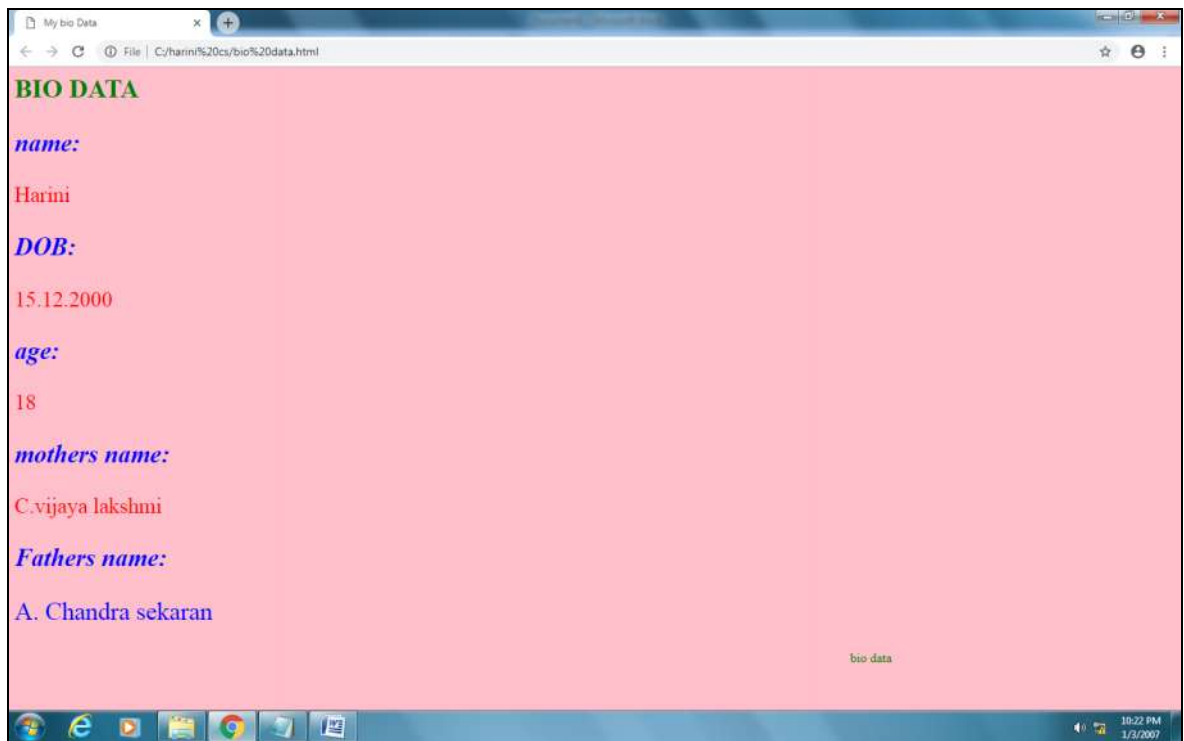
Internal Examiner

External Examiner

BIODATA

Program code:

```
<html>
<head>
<title>My bio Data</title>
</head>
<body style="background-color: pink; color: green;">
<h1 style="text-align: center;">BIO DATA</h1>
<p style="font-size: 23pt; color: blue"><b><i>name:</i></b>
<p style="font-size: 20pt; color: red">Harini</p>
<p style="font-size: 23pt; color: blue"><b><i>DOB:</i></b>
<p style="font-size: 20pt; color: red">15.12.2000</p>
<p style="font-size: 23pt; color: blue"><b><i>age:</i></b>
<p style="font-size: 20pt; color: red">18</p>
<p style="font-size: 23pt; color: blue"><b><i>mothers name:</i></b>
<p style="font-size: 20pt; color: red">C.vijaya lakshmi</p>
<p style="font-size: 23pt; color: blue"><b><i>Fathers name:</i></b>
<p style="font-size: 23pt; color: blue">A. Chandra sekaran</p>
<marquee>bio data</marquee>
</body>
</html>
```



LISTS, IMAGES, LINKS USING HTML

Program code:

```
<html>

<body>

<h1 style="text-align:center">LISTS IMAGES AND LINKS</h1>

<h2> an unordered list </h2>

<ul>

<li>coffee</li>

<li>tea</li>

<li>milk</li>

</ul>

<h2> an ordered lists </h2>

<ol>

<li> bread</li>

<li>cake</li>

<li>bun</li>

</ol>



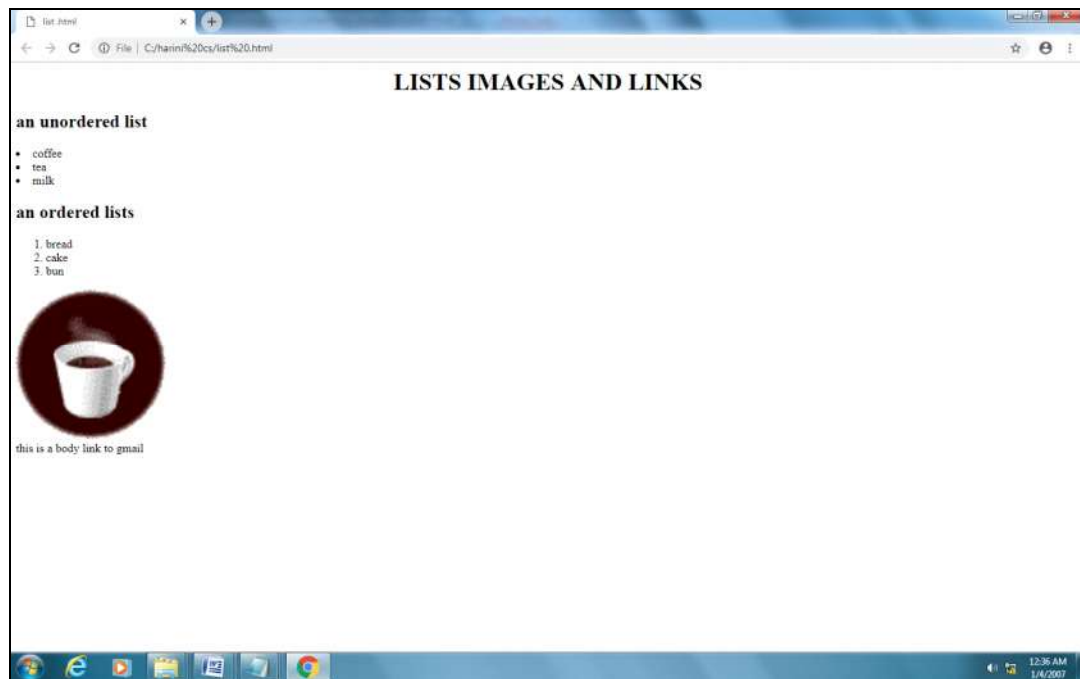
<br><br><a href="https: //www.gmail.com"target="blank"> this is a body

link to gmail </a>

</body>

</html>
```

Output:



CREATE A TABLE

Program code:

```
<html>

<head>

<title>Table</title>

</head>

<body>

<h1 style="text-align:centre;">TABLE</h1>

<table border="1"style="border=1px solid black;width:50%;>

<tr>

<td>&nbsp;</td>

<td>&nbsp;</td>

<td>&nbsp;</td>

<td>&nbsp;</td>

<td>&nbsp;</td>

</tr>

<tr>

<td colspan="3">&nbsp;</td>

<td colspan="2" rowspan="2">&nbsp;</td>

</tr>

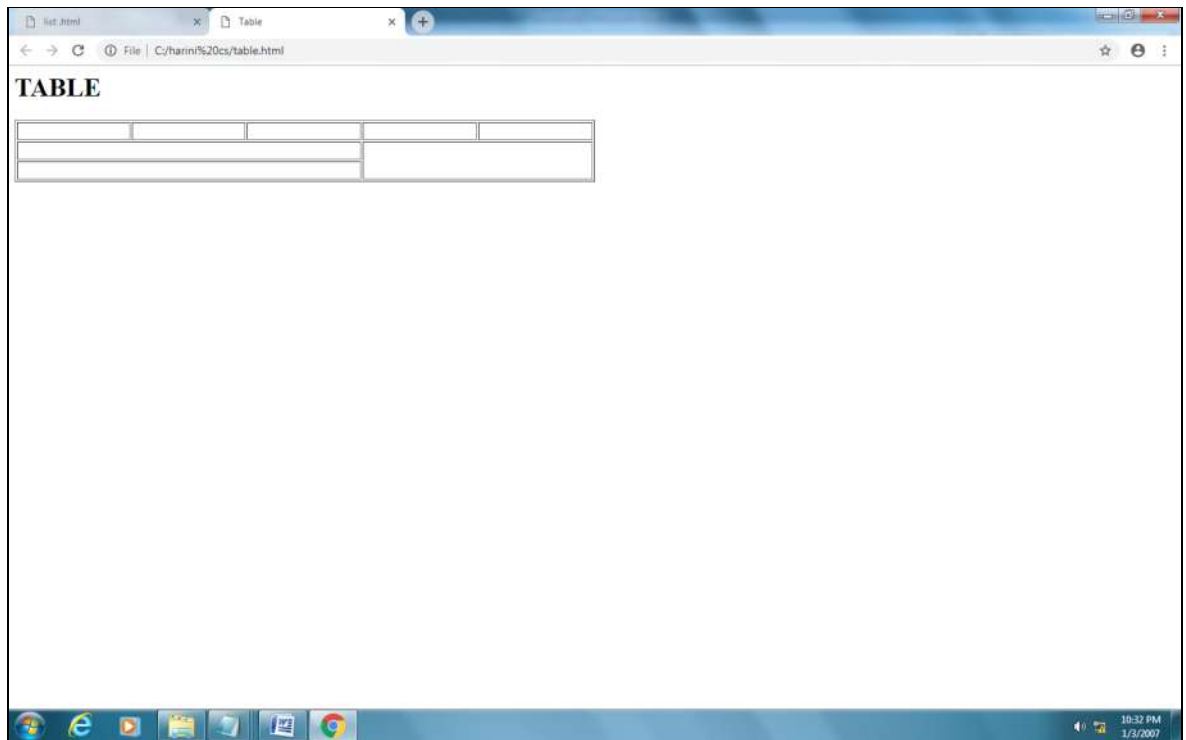
<tr>

<td colspan="3">&nbsp;</td>

</tr>

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

Output:



The screenshot shows a web browser window with two tabs: 'test.html' and 'Table'. The address bar displays the file path 'C:/hanni/%20cs/table.html'. The page content features the word 'TABLE' in a large, bold, black serif font. Below the text is an HTML table with 4 columns and 3 rows. The first row contains four empty cells. The second row has a cell in the first column, a cell in the second column, and a cell in the third column that spans the width of the fourth column. The third row contains two empty cells in the first and second columns, and a cell in the third column that spans the width of the fourth column. The Windows taskbar at the bottom shows icons for Internet Explorer, VLC media player, a folder, a document, and Google Chrome. The system clock indicates 10:32 PM on 1/3/2007.

TABLE			

CREATE A FORM

Program code:

```
<html>

<body>

<h2> HTML FORM</h2>

<p> The <strong>input type="text"

</strong> defines a one -line text input field</p>

<form>

First Name:<br>

<input type="text"

name="firstname">

<br>

Last Name:<br>

<input type="text"

name="last name">

<br><br>

<select name="cars">

<option value="volvo">Volvo</option>

<option value="fiat">Fiat</option>

<option value="audi">Audi</option>

<option value="toyota">Toyota</option>

</select>

<br><br>

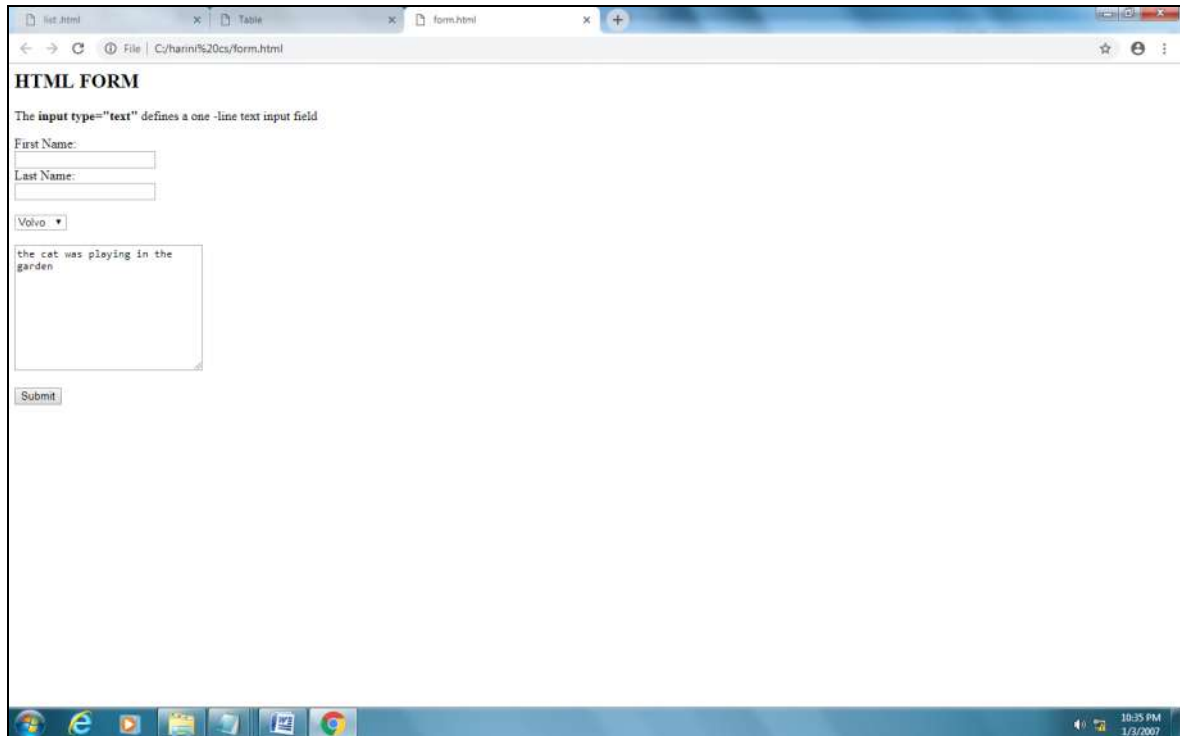
<textarea name="message"rows=10 cols=30>the cat was playing in the

garden</textarea>
```


<input type ="submit">

</form>

Output:



The screenshot shows a web browser window with the title bar indicating three open tabs: 'net.html', 'Table', and 'form.html'. The address bar shows the file path 'C:/harini%20cs/form.html'. The page content is titled 'HTML FORM' and includes a paragraph: 'The input type="text" defines a one-line text input field'. Below this, there are two text input fields labeled 'First Name:' and 'Last Name:'. A dropdown menu is set to 'Volvo'. A text area contains the text 'the cat was playing in the garden'. At the bottom of the form is a 'Submit' button. The Windows taskbar at the bottom shows icons for Internet Explorer, VLC, and other applications, with the system clock displaying '10:35 PM 1/3/2007'.

HTML FORM

The input type="text" defines a one-line text input field

First Name:

Last Name:

Volvo

the cat was playing in the garden

CREATING STUDENT DATABASE TABLE

Program code:

```
<html>

<body>

<title>Student Database</title>

</head>

<body>

<h1 Style="text-align:center;">Student Data base table</h1>

<table border="1"style="border:1px solid black;width:50%";>

<tr>

<td>Name</td>

<td>Class</td>

<td>Grade</td>

<td>Roll no</td>

</tr>

<tr>

<td>Harini</td>

<td>12</td>

<td>A</td>

<td>1011</td>

</tr>

<tr>

<td>jeeva</td>

<td>12</td>
```

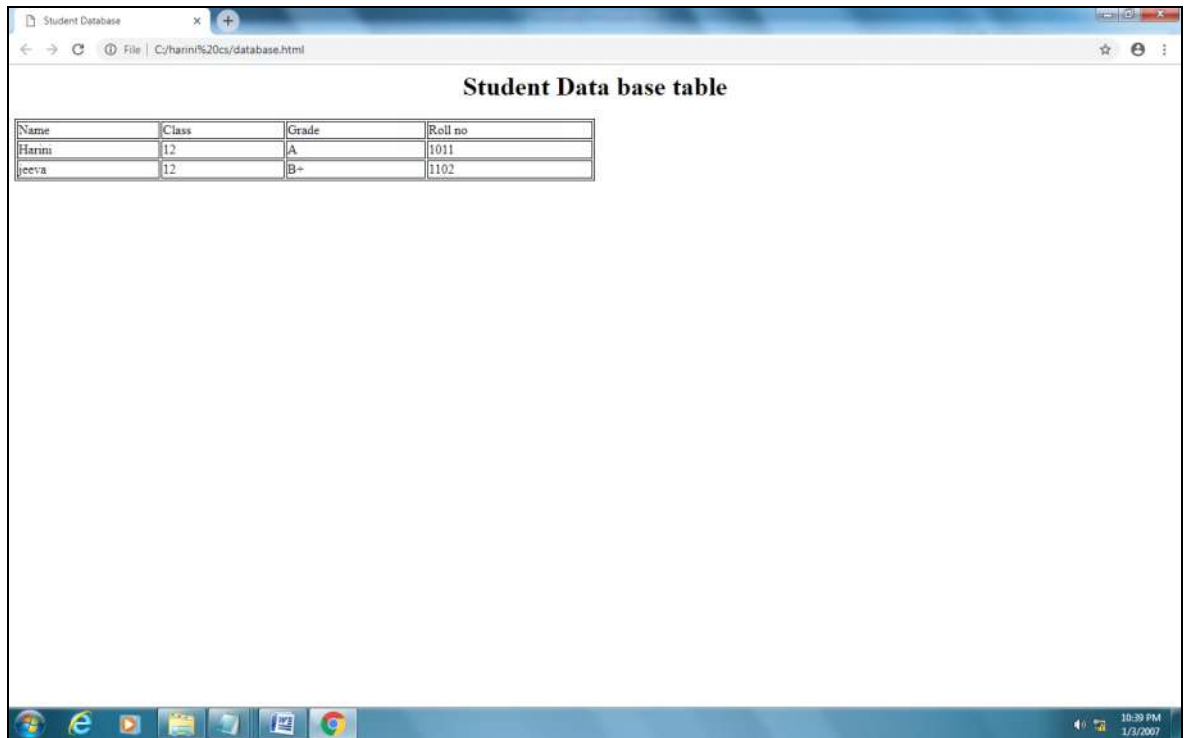
<td>B+</td>

<td>1102</td>

</tr>

</table>

Output:



The screenshot shows a web browser window with a single tab titled 'Student Database'. The address bar shows the file path 'C:/harini/s20cs/database.html'. The main content area displays a table with the title 'Student Data base table'. The table has four columns: Name, Class, Grade, and Roll no. It contains two rows of data: one for Harini (Class 12, Grade A, Roll no 1011) and one for Jeeva (Class 12, Grade B+, Roll no 1102). The Windows taskbar is visible at the bottom, showing icons for various applications and the system clock indicating 10:39 PM on 1/3/2007.

Name	Class	Grade	Roll no
Harini	12	A	1011
Jeeva	12	B+	1102

VERTICAL FRAMES

Program code:

Frame.html

```
<head>

<title>frame1</title>

</head>

<body>

<h3>About</h3>

<a href="C:\harini cs\database.html"target="main">student grade table</a>

<br>

<a href="C:\harini cs\form.html"target="main">forms</a>

<br>

<a href="C:\harini cs\table.html"target="main">empty table</a>

<br>

</body>

</html>

<html>

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

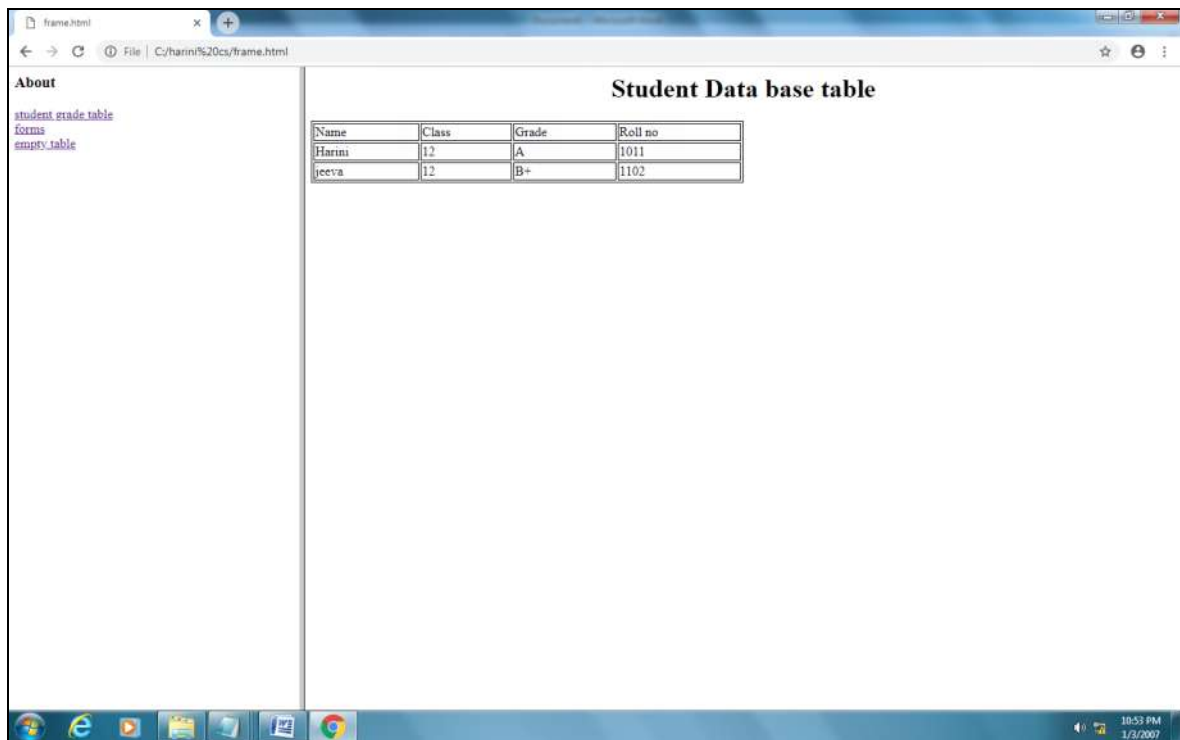
<frame src="frame1.html" name="menu">

<frame src="frame2.html" name="main">

</frameset>

</html>
```

Output:



HORIZONTALS FRAMES

Program code:

Frame1.html

```
<head>

<title>frame1</title>

</head>

<body>

<h3>About</h3>

<a href="C:\harini cs\database .html"target="main">student grade table</a>

<br>

<a href="C:\harini cs\form .html"target="main">forms</a>

<br>

<a href="C:\harini cs\table.html"target="main">empty table</a>

<br>

</body>

</html>
```

Main .html:

```
<html>

<head>

</head>

<h1 style="text-align:center:">menu</h1>

</html>
```

Frame.html

```
<html>

<frameset rows="25%,75%">
```

```
<frame src="frame1.html" name="menu">
<frame src="frame2.html" name="main">
</frameset>
</html>
```

Output:



MULTIPLE FRAMES

Program code:

```
<html>

<head>

<title>frame1</title>

</head>

<body>

<h3>About</h3>

<a href="C:\harini cs\database.html"target="main">student grade table</a>

<br>

<a href="C:\harini cs\form.html"target="main">forms</a>

<br>

<a href="C:\harini cs\table.html"target="main">emptytable</a>

<br>

</body>

</html>
```

Main .html:

```
<html>

<head>

</head>

<h1 style="text-align:center:">menu</h1>

</html>
```

Frame.html

```
<html>
```

```
<frameset rows="15%,85%">
```

```
<frame src="main.html" name="menu">
```

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

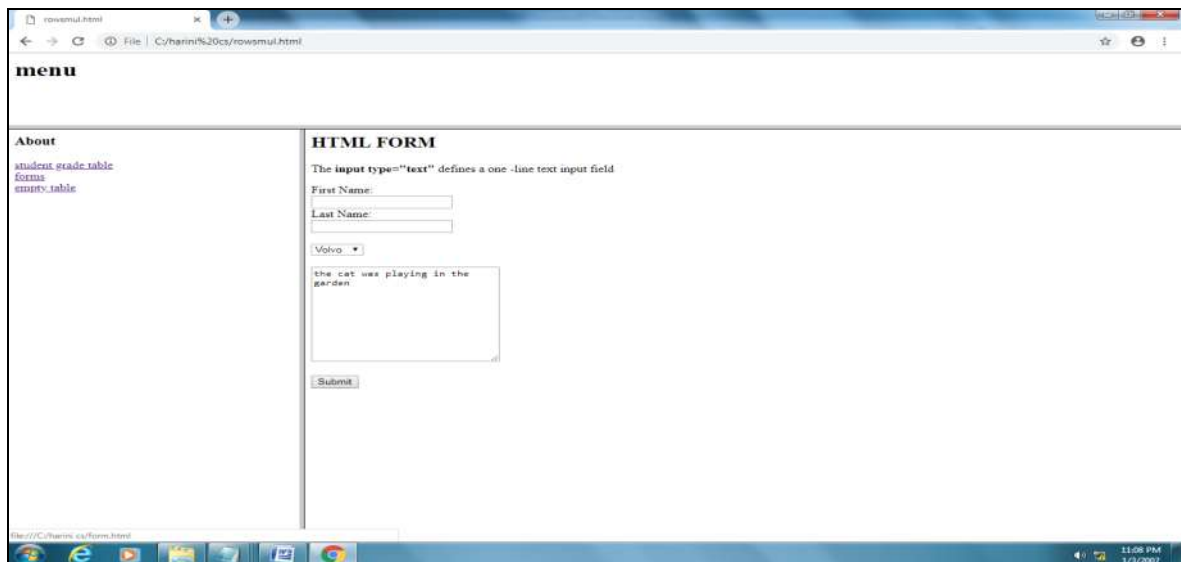
```
<frame src="frame1.html" name="menu">
```

```
<frame src="frame2.html" name="main">
```

```
</frameset>
```

```
</html>
```

Output:



OPTION BUTTON AND CHECK BOXES IN HTML FORMS

Program code:

```
<html>

<body>

<h2>HTML FORMS </h2>

<p>This Forms has textbox,option button,checkbox,textarea,submit
button,reset button</p>

<form>

Name:<input type="text" name="firstname">

<br>

Gender:<input type="radio" name="opt1" value="Male">Male

<input type="radio" name="opt1" value="Female">Female

<br><br>

select your subjects:

<input type="checkbox" name="sb1" value="Java">Java

<input type="checkbox" name="sb2" value="C++">C++

<input type="checkbox" name="sb3" value="HTML">HTML

<br>

Address: <textarea name="message" rows=4 cols=30>Type your Address
Here</textarea>

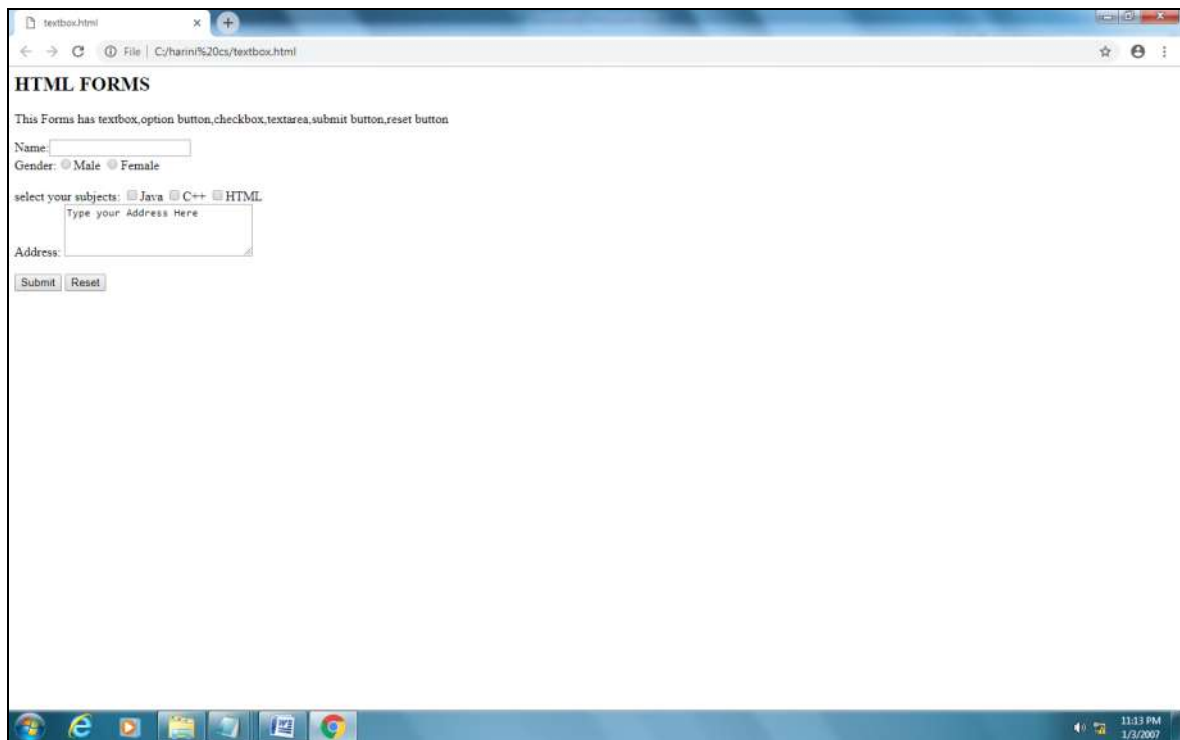
<br><br>

<input type="Submit">

<input type="Reset">

</form>
```

Output:



The screenshot shows a web browser window with a single tab titled 'textbox.html'. The address bar shows the file path 'C:/harini%20cs/textbox.html'. The page content is as follows:

HTML FORMS

This Form has textbox,option button,checkbox,textarea,submit button,reset button

Name:

Gender: ☒ Male ☐ Female

select your subjects: ☐ Java ☒ C++ ☐ HTML

Address:

The Windows taskbar at the bottom shows the Start button, Internet Explorer, VLC media player, a folder icon, a document icon, and the Google Chrome icon. The system clock in the bottom right corner displays '11:13 PM' and '1/3/2007'.

SQUARES AND CUBES USING JAVASCRIPT

Program code:

```
<head>

<script>

function prtsqrcube()

{
var i,tb;
tb="";
for(i=5;i<=15;i++)
{
tb=tb+"Number:"+i+" Square:"+i*i+" Cube:"+i*i*i+"\n"
}
alert(tb);
}

</script>

</head>

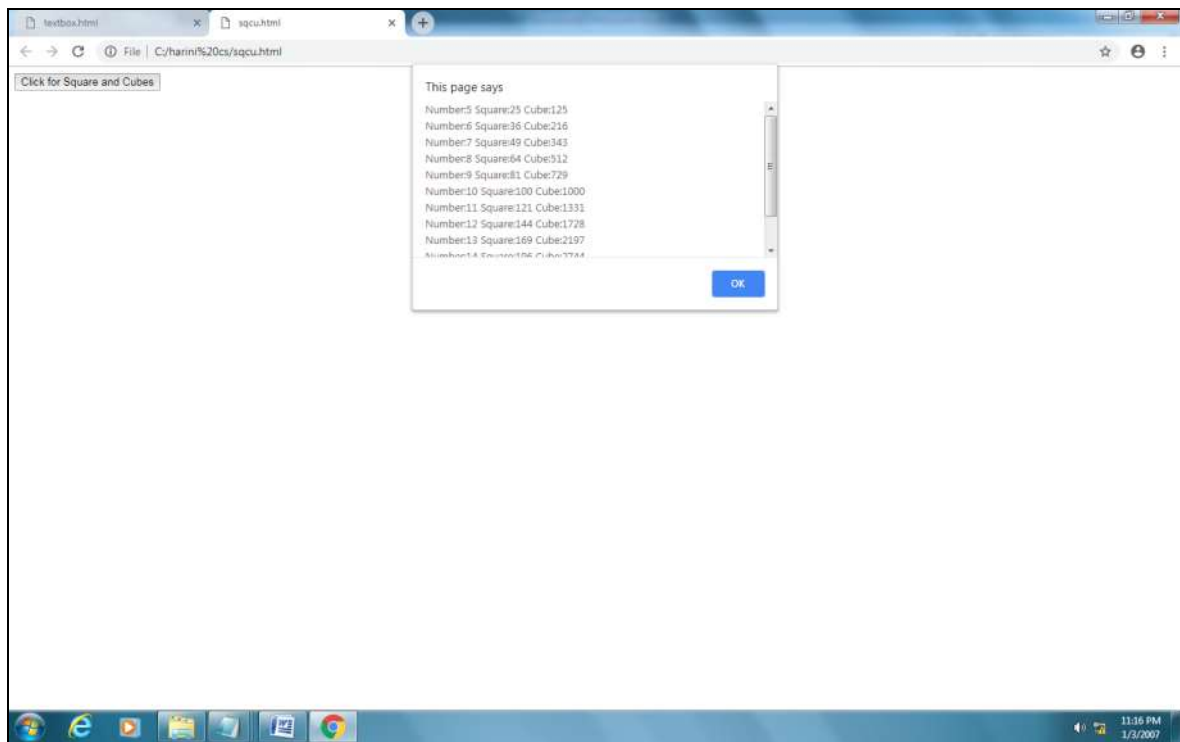
<form>

<input type="button" value="Click for Square and
Cubes" onclick="prtsqrcube()"/>

</form>

</html>
```

Output:



LARGEST OF THREE NUMBERS

Program code:

```
<html>

<head>

<script >

function disp()

{

var a,b,c;

a=parseInt(document .getElementById("a").value);

b=parseInt(document .getElementById("b").value);

c=parseInt(document .getElementById("c").value);

document.getElementById("res").innerHTML="Largest of

"+a+", "+b+", "+c+" is "+Math.max(a,b,c);

}

</script>

</head>

<body>

<h3>Calculating largest of three numbers</h3>

<h4>Enter a:<input type ="text" id="a"><br>

Enter b:<input type="text" id="b"><br>

Enter c:<input type ="text" id="c"><br>

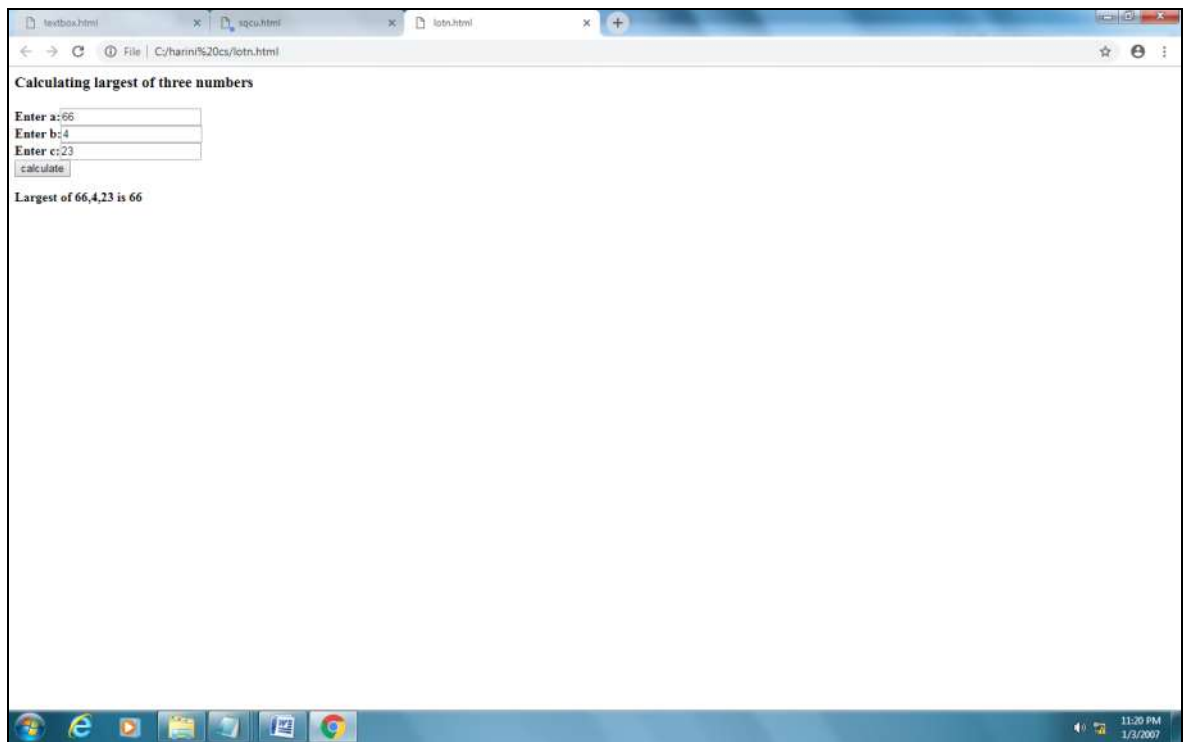
<input type="submit" value="calculate" onclick="disp()">

<p id="res"></h4>

</body>

</html>
```

Output:



FACTORIAL OF A GIVEN NUMBER

Program code:

```
<html>

<head>

<script language="javascript" type="text/javascript">

function disp()

{ var n,fact,i;

fact=1;

n=parseInt(document.getElementById("n").value);

for(i=1;i<=n;i++)

{

fact=fact*i;

}

document.getElementById("res").innerHTML="factorial of "+n+"is "+fact;

}

</script>

</head>

<body>

<h3>Calculating factorial of the given number</h3>

<h4>Enter a Number <input type="text" id="n"><br>

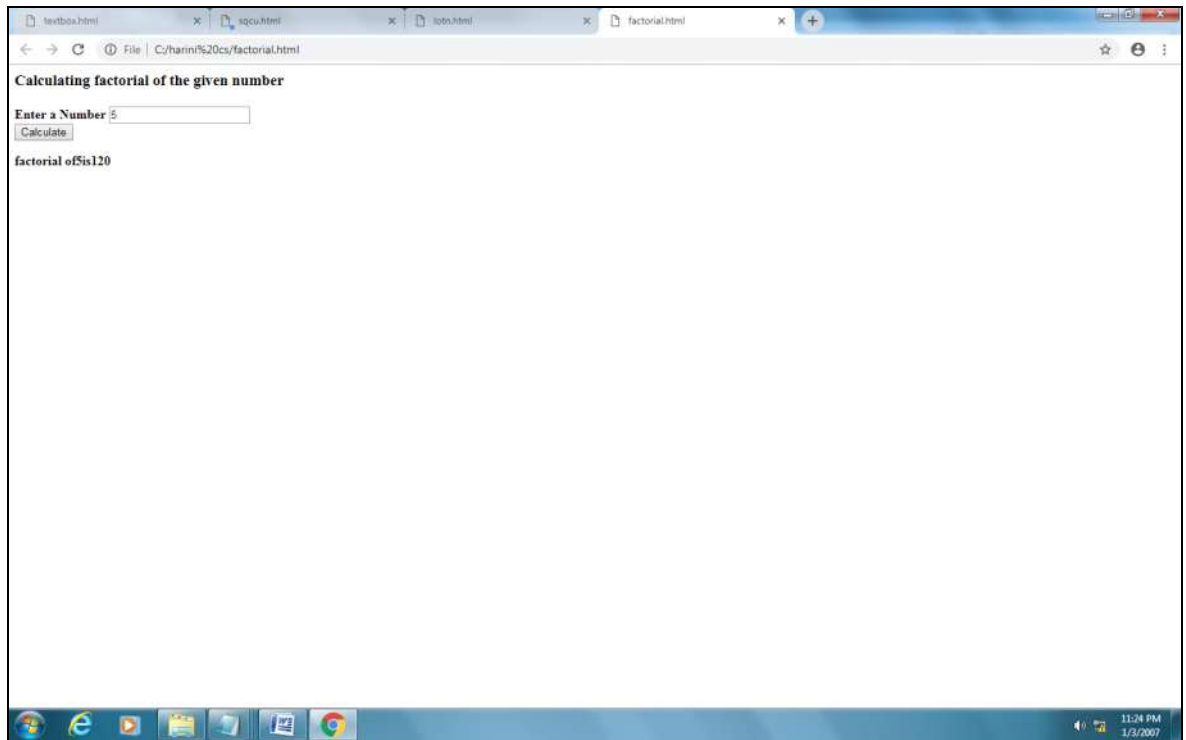
<input type="submit" value="Calculate" onclick="disp()">

<p id="res"></h4>

</body>

</html>
```

Output:



SUM AND AVERAGE OF POSITIVE NUMBERS

Program code:

```
<html>

<head>

<script language="javascript" type="text/javascript">

function calc()

{ var num,s,i;

s=0;

i=0;

do

{ num=parseInt(prompt("Enter a positive Number","0"));

s=s+num;

i++;

}

while(num>0);

document.getElementById("res").innerHTML="Sum of Positive Number  
is" +s+"<br>" + "Average of number is" + s/i+"<br>";

}

</script>

</head>

<body>

<h3>Sum and Average of positive Number</h3>

<h4>

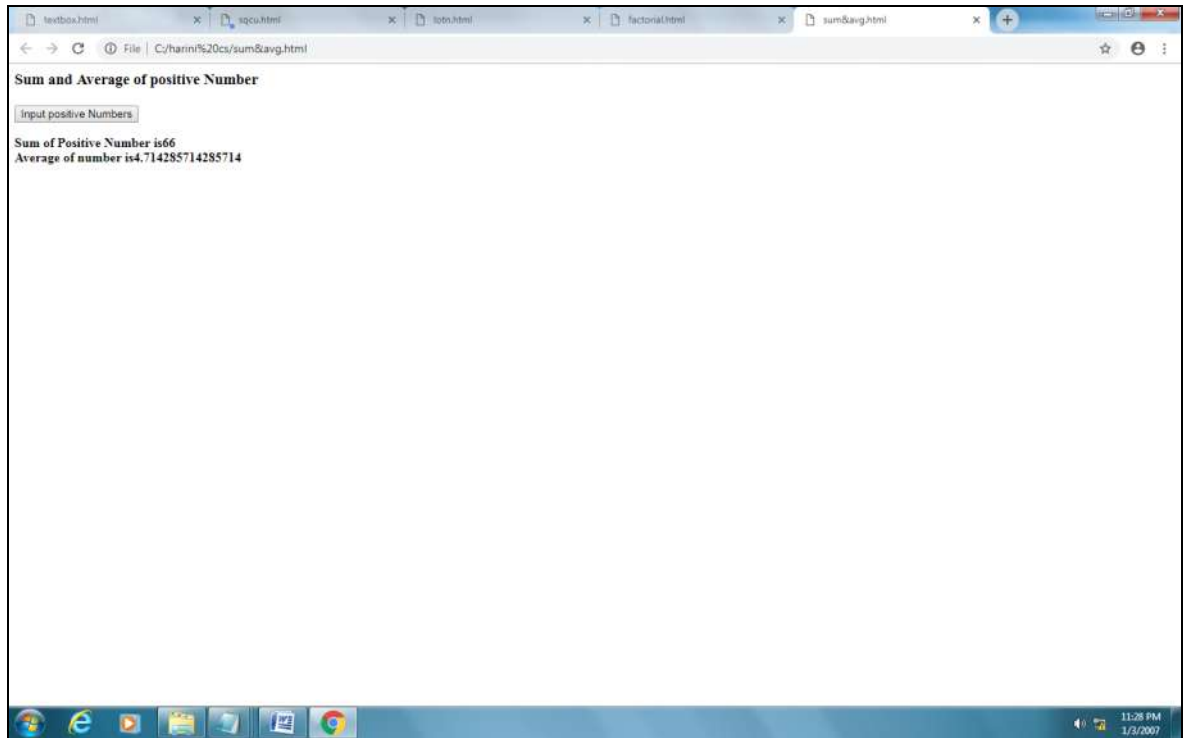
<input type="submit" value="Input positive Numbers" onclick="calc()">

<p id="res"></h4>
```

</body>

</html>

Output:



INTEREST CALCULATION

Program code:

```
<html>

<head>

<script language = "javascript">

function simpleint()

{

var p,n,int,i,amt,str;

p=100;

str=" ";

n=parseInt (document.getElementById("n").value);

for(i=1;i<=n;i++)

{

int=p*5/100;

amt=p+int;

p=amt;

str=str+"Amount at the end of year"+i+"is"+amt+"<br>";

}

document.getElementById("res").innerHTML=str;

}

</script>

</head>

<body>
```

<h3>calculating Amount with interest at the end of each year</h3>

<h4>

principal Amount is 1000

Rate of Interest is 5%

Enter number of years of deposit:<input type="text" id="n">

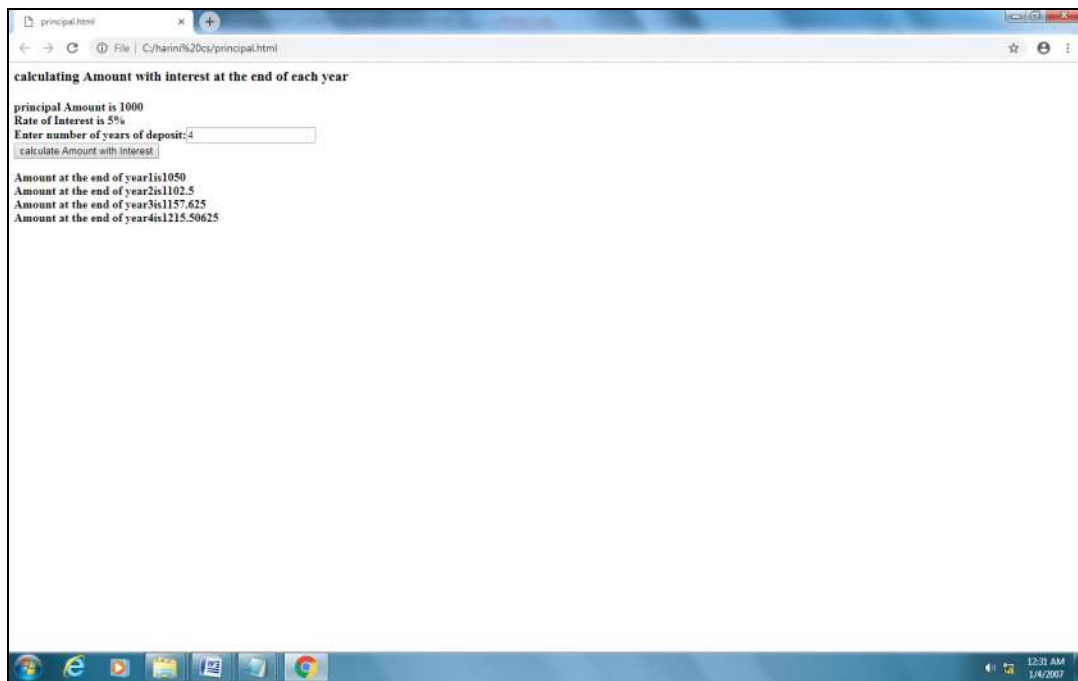
<input type="submit" value="calculate Amount with
Interest" onclick="simpleint()">

<p id="res"></h4>

</body>

</html>

Output:



NUMBER OF POSITIVE NEGATIVE NUMBER AND ZEROS

Program code:

```
<html>

<head>

<script language ="Javascript" tyupe="text/Java script">

function count()

{

var t,p,n,z,num;

p=0;

n=0;

z=0;

t=parseInt (document.getElementById("t").value);

for(var i=0;i<t;i++)

{

num =prompt("Enter a positive Number/negative Number/zero","0");

if(num>0)

p++;

else

if(num<0)

n++;

else

z++;

}
```

```

document.getElementById("res").innerHTML="positive numbers
are"+p+"<br>"+"Negative numbers are"+n+"<br>"+"Numbers of zeros
are"+z;

}

</script>

</head>

<body>

<h3>counting positive,Negative or zeros</h3>

<h4>Enter a Total Number of numbers:<input type="text" id="t"><br>

<input type="submit" value="GetInput & count" onclick="count()">

<p id="res"></h4>

</body>

</html>

```

Output:

