

Answers:

1) Program Code:

```
<html>

<head>

<title>Compound Interest</title>

<style>

input{

padding: 6px 5px;

    padding-right: 50px;

    font-size: 15px;

    border-radius: 4px;

    border: 1px solid; }

button{

width: 235px;

    padding: 6px 7px;

    border-radius: 5px;

    border: 1px solid;

        cursor:pointer; }

</style>

</head>

<body>

<input type="number" id="principle" placeholder="Principle Amount"><br><br>

<input type="number" id="rate" placeholder="Rate of Interest"><br><br>

<button onClick="ci()">Calculate</button>

<script>
```

```

function ci()
{
var p = parseInt(document.getElementById("principle").value);
var r = parseInt(document.getElementById("rate").value);
var interest;
var cit;
var total=0;
var compound = p*Math.pow((1+(r/100)),10);
var result = compound-p;
document.write("<br>Compound interest for 10 years is: "+result.toFixed(2));
document.write("<br><br>");
document.write("<table border='2' style='width:300px; border-collapse:collapse; text-align:center; font-size:18px;'>");
document.write("<tr>");
document.write("<th>Year</th>");
document.write("<th>Interest Amount</th>");
document.write("</tr>");
for(let i=1;i<=10;i++) {
document.write("<tr>");
document.write("<td>"+i+"</td>");
cit = p*Math.pow((1+(r/100)),1);
interest = cit-p;
total = total+interest;
document.write("<td>"+interest.toFixed(2)+"</td>");
document.write("</tr>");
p = cit;

```

```

}

document.write("</table>");

document.write("<br>Total is: "+total.toFixed(2));

}

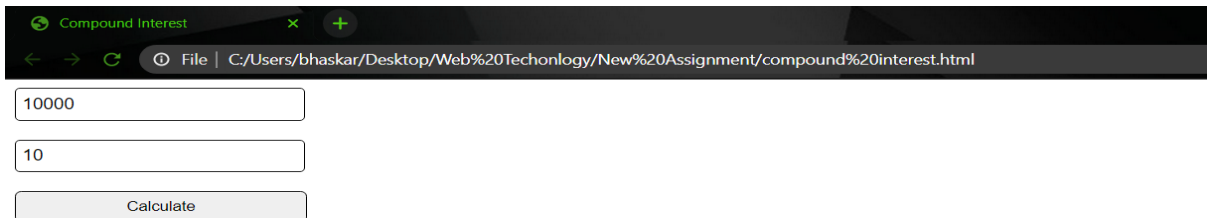
</script>

</body>

</html>

```

Output:



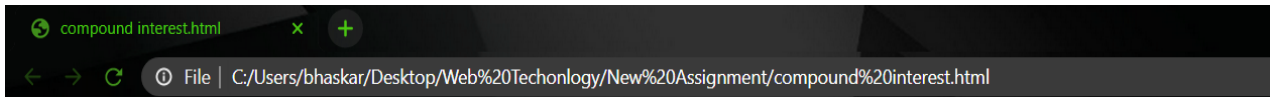
Compound Interest

File | C:/Users/bhaskar/Desktop/Web%20Techoonlogy/New%20Assignment/compound%20interest.html

10000

10

Calculate



compound interest.html

File | C:/Users/bhaskar/Desktop/Web%20Techoonlogy/New%20Assignment/compound%20interest.html

Compound interest for 10 years is: 15937.42

Year	Interest Amount
1	1000.00
2	1100.00
3	1210.00
4	1331.00
5	1464.10
6	1610.51
7	1771.56
8	1948.72
9	2143.59
10	2357.95

Total is: 15937.42

2) Program Code:

```
<html>

<head>

<title>Sum and average</title>

<style>

#no{

    padding: 4px 4px;

    padding-right: 30px;

    font-size: 15px;

    border-radius: 4px;

    border: 1px solid; }

button{

    padding: 3px 24px;

    font-size: 17px;

    border-radius: 4px;

    border: 1px solid; }

</style>

</head>

<body>

<input type="number" id="no" placeholder="Enter a number"><br><br>

<button onClick="calc()">Calculate</button>

<script>

function calc() {

var n = parseInt(document.getElementById("no").value);
```

```
var sum=0,count=0,average;

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

sum+=i;

count+=1;

}

document.write("<body style= 'font-size:24px'>");

document.write("n = "+n);

document.write("<br>");

document.write("Sum = "+sum);

document.write("<br>");

average = sum/count;

document.write("Average = "+average);

document.write("</body>");

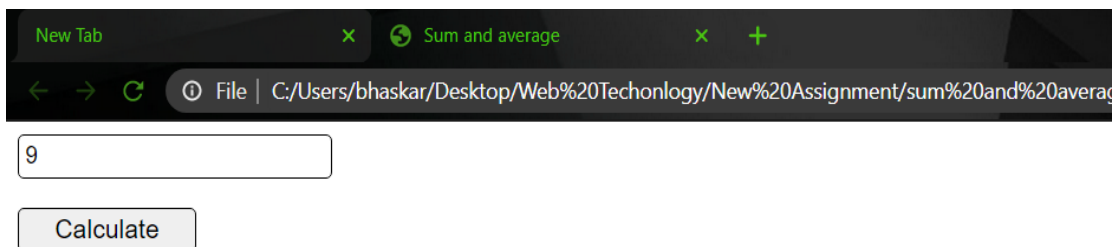
}

</script>

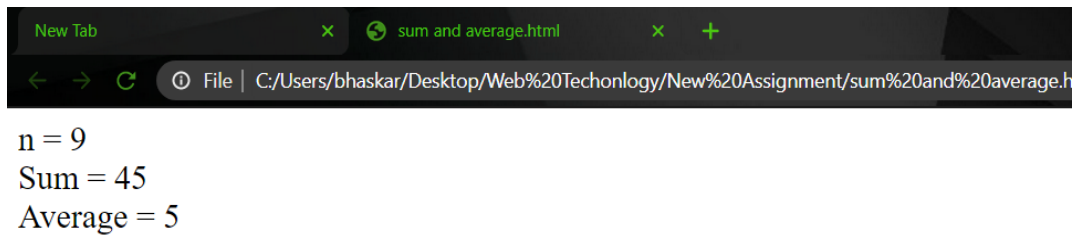
</body>

</html>
```

Output:



The screenshot shows a web browser window with a single tab titled "Sum and average". The address bar displays the file path: "C:/Users/bhaskar/Desktop/Web%20Techoonlogy/New%20Assignment/sum%20and%20averag". Below the address bar, there is a text input field containing the number "9". Below the input field is a button labeled "Calculate".



3) Program Code:

```
<html>

<head>

<title>Random Numbers from 1 to 10</title>

</head>

<body>

<script>

let a = 1;

let b = 10;

document.write("<table border='2' style='border-collapse:collapse; width:500px; padding:5px 6px;'>");

document.write("<caption style='font-size:30px; font-weight:bold;'>Random Numbers</caption>");

document.write("<tr>");

for(i=1;i<=5;i++) {

document.write("<th style='display:none;'></th>");

}

document.write("</tr>");

for(i=1;i<=5;i++) {

var result = a + (b-a)*Math.random();
```

```

document.write("<tr>");

document.write("<td style='padding:15px 28px; font-family:sans-serif; font-
size:18px;'>" + result + "</td>");

document.write("<td style='padding:15px 28px; font-family:sans-serif; font-
size:18px;'>" + result + "</td>");

document.write("<td style='padding:15px 28px; font-family:sans-serif; font-
size:18px;'>" + result + "</td>");

document.write("<td style='padding:15px 28px; font-family:sans-serif; font-
size:18px;'>" + result + "</td>");

document.write("<td style='padding:15px 28px; font-family:sans-serif; font-
size:18px;'>" + result + "</td>");

document.write("</tr>");  }

document.write("</table>");

document.write("<br>");

document.write("<button onClick='location.reload()' style='padding:8px 68px; border-
radius:4px; font-size:15px; cursor:pointer; border:1px solid; background-color:
antiquewhite;'>Generate</button>");

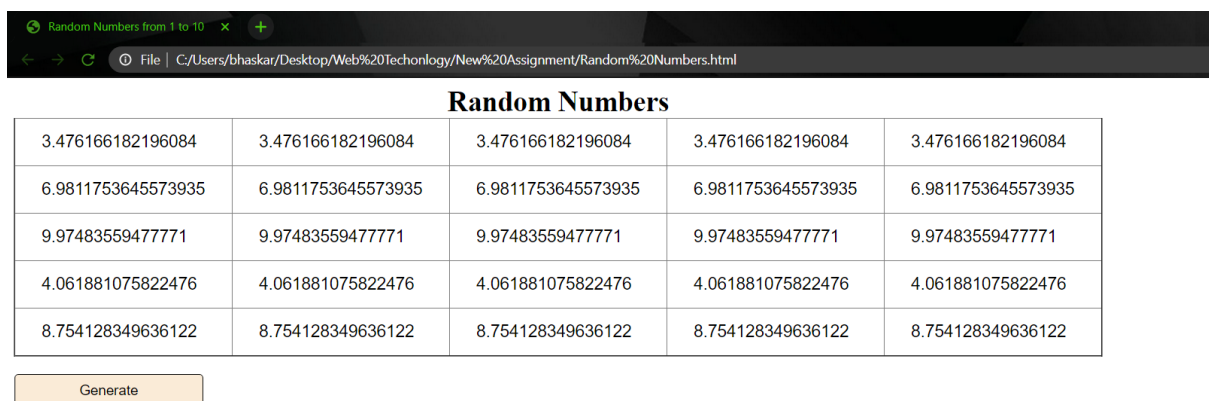
</script>

</body>

</html>

```

Output:



The screenshot shows a web browser window with the title "Random Numbers from 1 to 10". The address bar shows the file path: "C:/Users/bhaskar/Desktop/Web%20Technology/New%20Assignment/Random%20Numbers.html". The main content area displays a table titled "Random Numbers" with 5 columns and 5 rows of random numbers. Below the table is a "Generate" button.

Random Numbers				
3.476166182196084	3.476166182196084	3.476166182196084	3.476166182196084	3.476166182196084
6.9811753645573935	6.9811753645573935	6.9811753645573935	6.9811753645573935	6.9811753645573935
9.97483559477771	9.97483559477771	9.97483559477771	9.97483559477771	9.97483559477771
4.061881075822476	4.061881075822476	4.061881075822476	4.061881075822476	4.061881075822476
8.754128349636122	8.754128349636122	8.754128349636122	8.754128349636122	8.754128349636122

Generate