

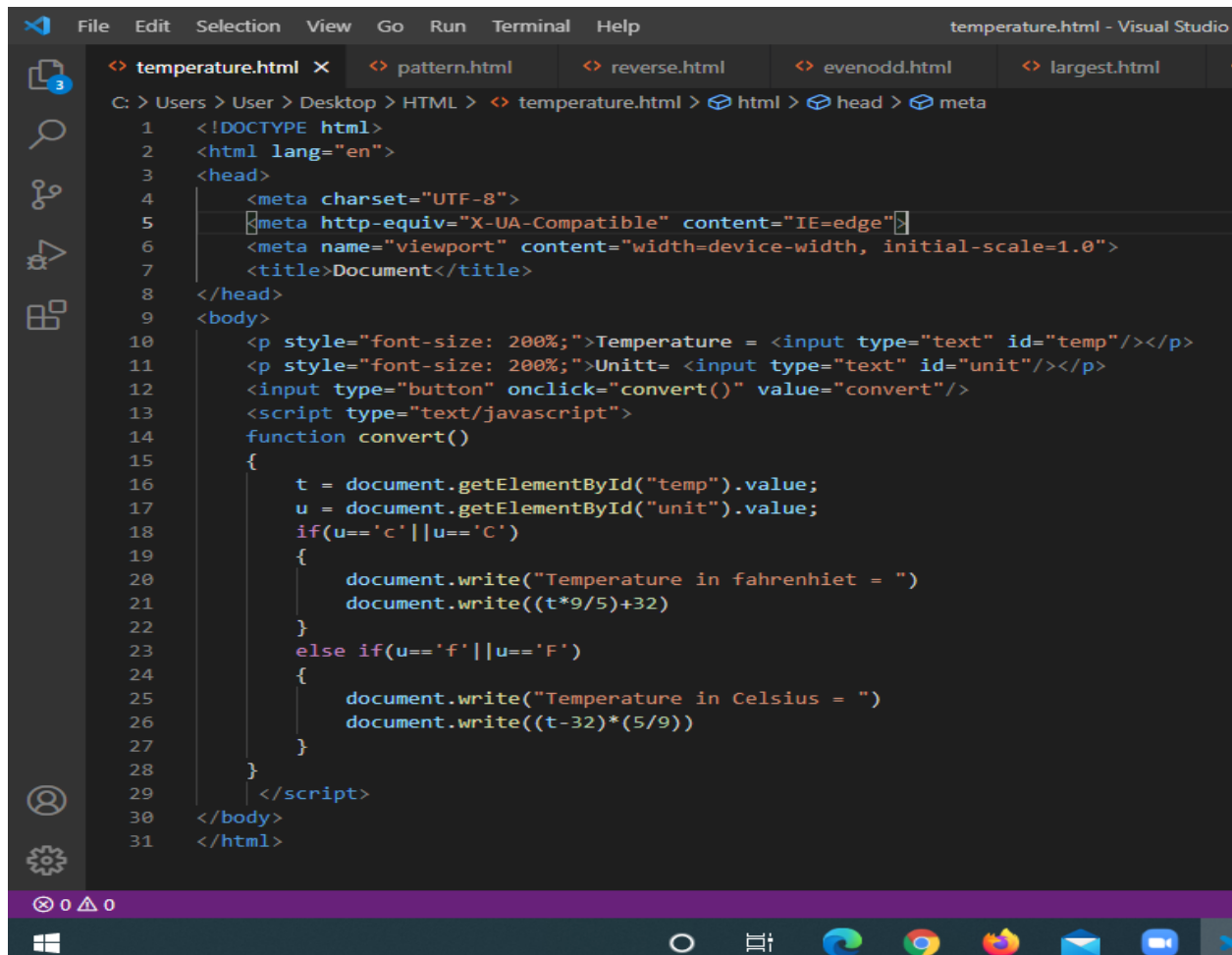
WD ASSIGNMENT --3

Name :- INTESHAB ALAM

Reg No. :- RA2031241010094

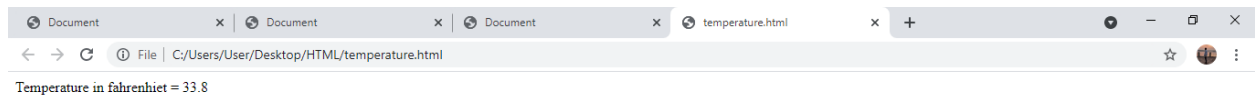
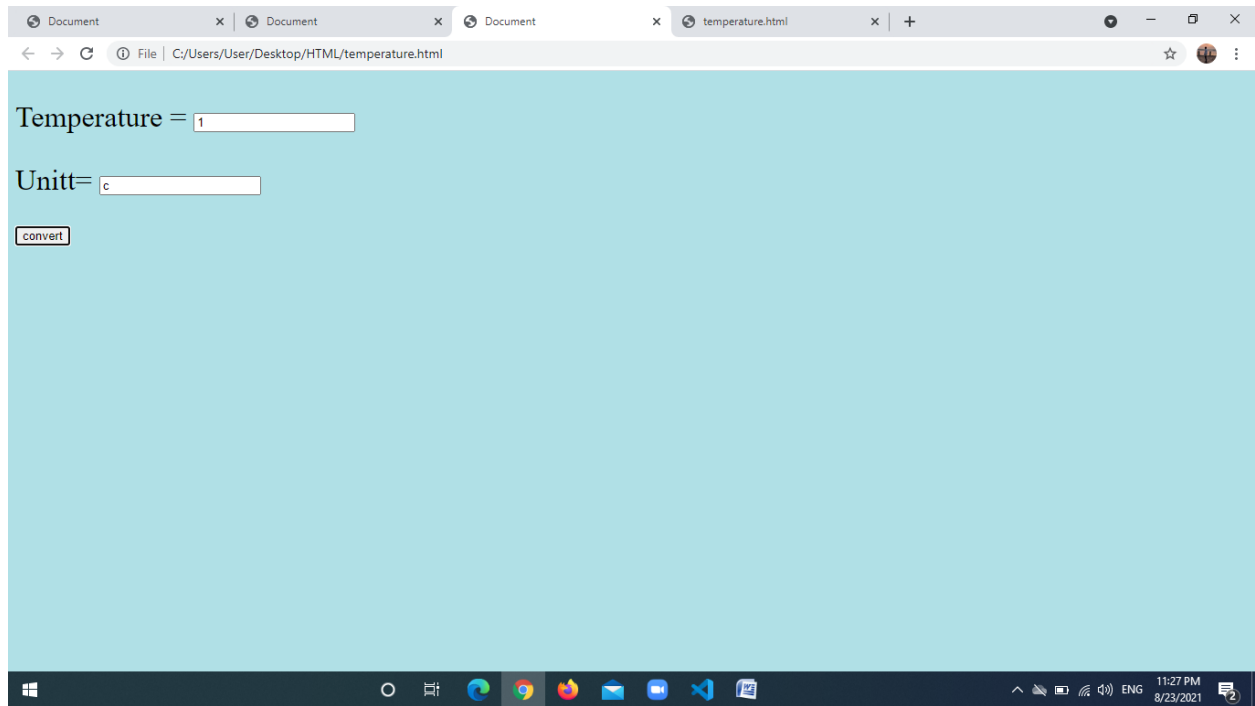
Q1. Write a javascript program to convert temperature to and from Celsius , fahrenheit.

CODE



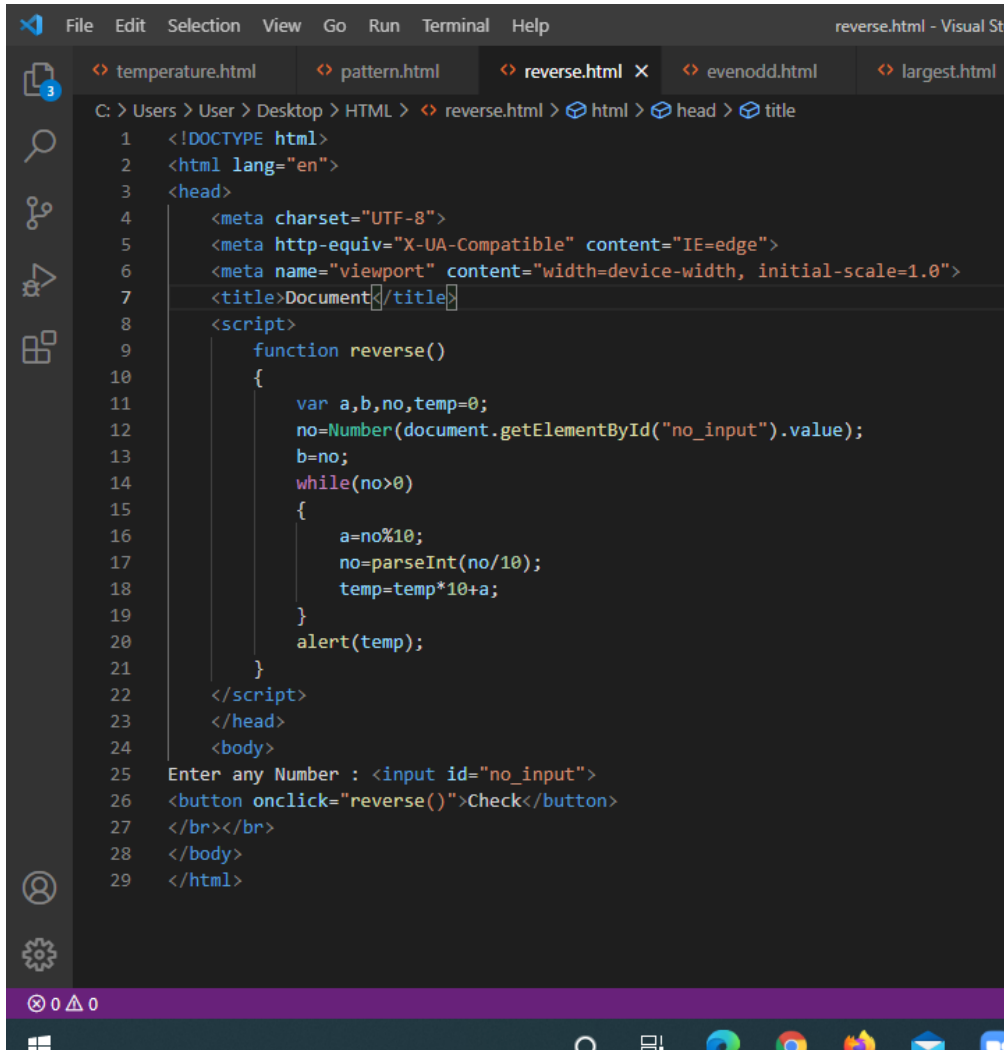
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <body>
10  <p style="font-size: 200%;">Temperature = <input type="text" id="temp"/></p>
11  <p style="font-size: 200%;">Unitt= <input type="text" id="unit"/></p>
12  <input type="button" onclick="convert()" value="convert"/>
13  <script type="text/javascript">
14    function convert()
15    {
16      t = document.getElementById("temp").value;
17      u = document.getElementById("unit").value;
18      if(u=='c' || u=='C')
19      {
20        document.write("Temperature in fahrenheit = ")
21        document.write((t*9/5)+32)
22      }
23      else if(u=='f' || u=='F')
24      {
25        document.write("Temperature in Celsius = ")
26        document.write((t-32)*(5/9))
27      }
28    }
29  </script>
30 </body>
31 </html>
```

OUTPUT



Q2. Write a javascript program that reverse a number.

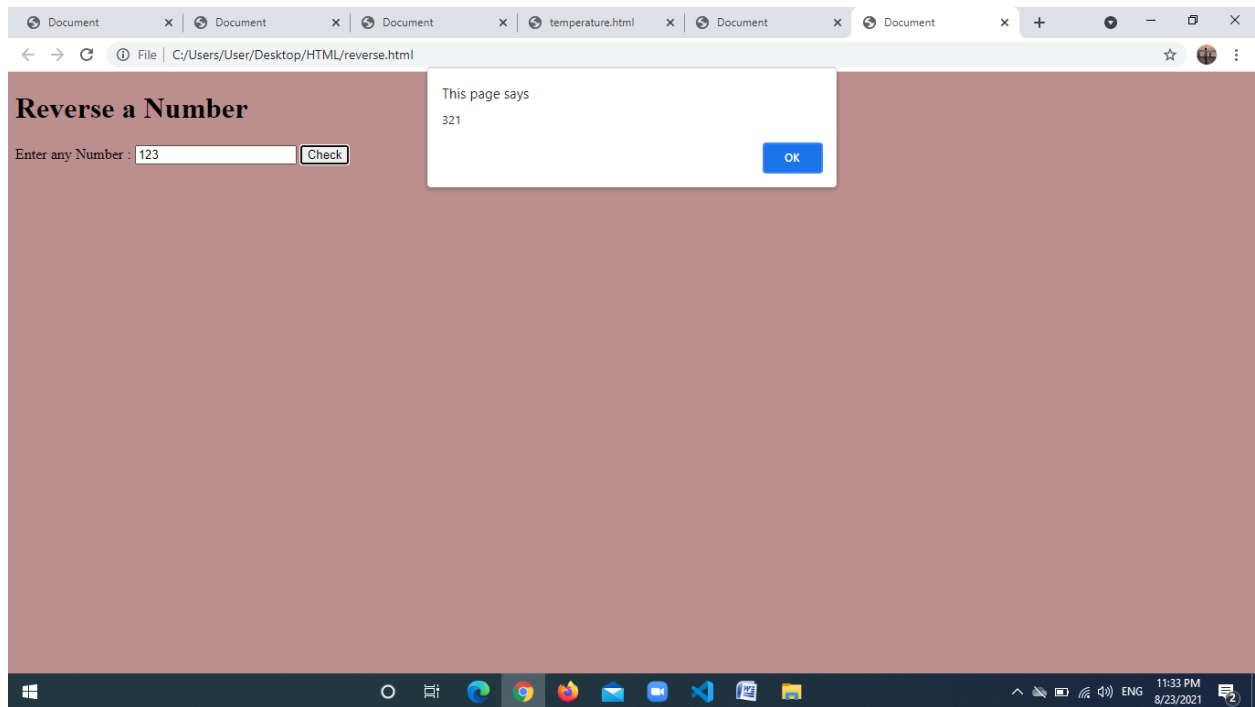
CODE

A screenshot of the Visual Studio Code editor interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The title bar shows 'reverse.html - Visual Studio Code'. The Explorer sidebar on the left shows a file tree with 'reverse.html' selected. The main editor area displays the following code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <script>
9     function reverse()
10    {
11      var a,b,no,temp=0;
12      no=Number(document.getElementById("no_input").value);
13      b=no;
14      while(no>0)
15      {
16        a=no%10;
17        no=parseInt(no/10);
18        temp=temp*10+a;
19      }
20      alert(temp);
21    }
22  </script>
23 </head>
24 <body>
25   Enter any Number : <input id="no_input">
26   <button onclick="reverse()">Check</button>
27 </br></br>
28 </body>
29 </html>
```

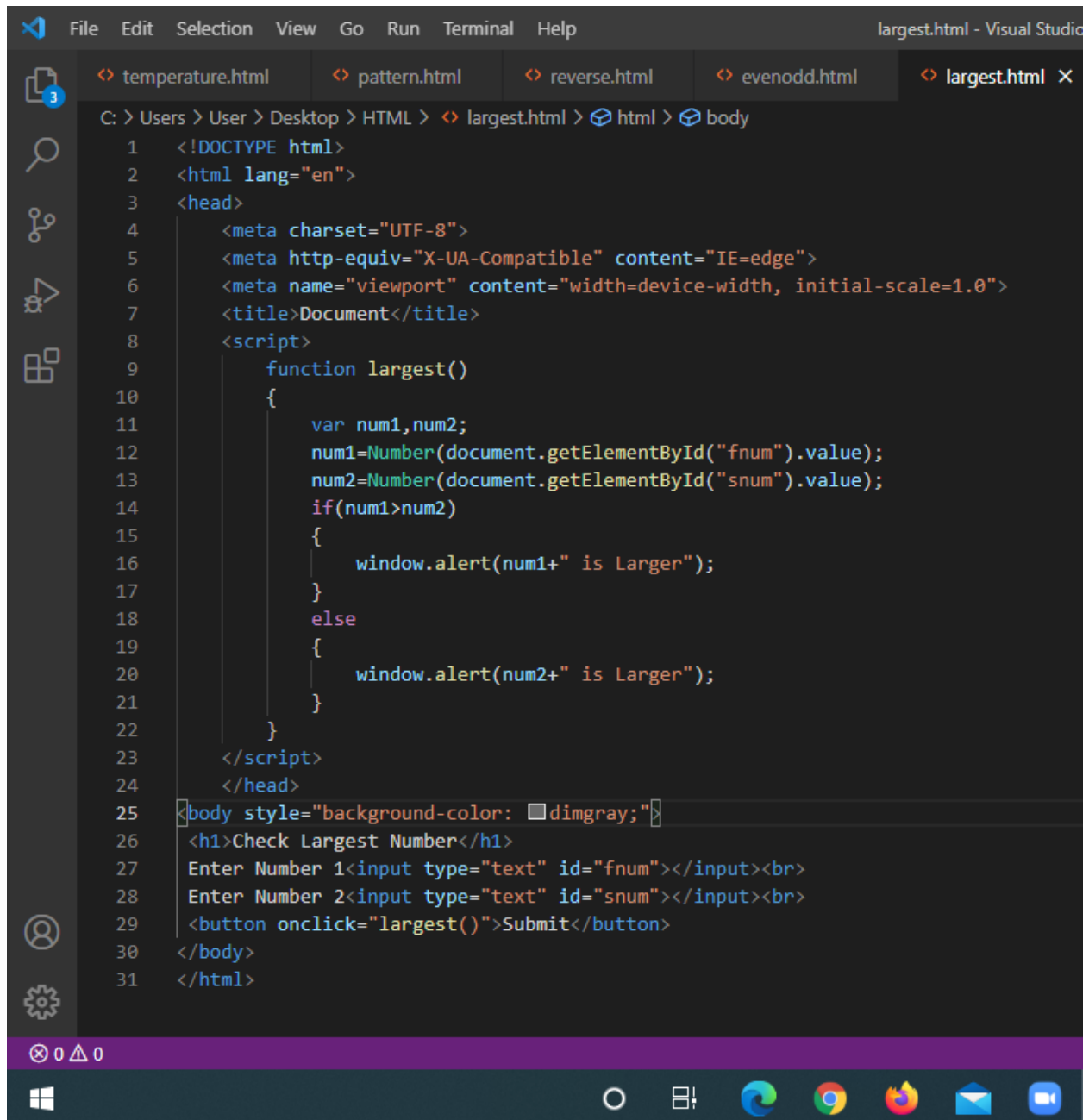
The bottom status bar shows '0 0 0' and a Windows taskbar is visible at the very bottom.

OUTPUT



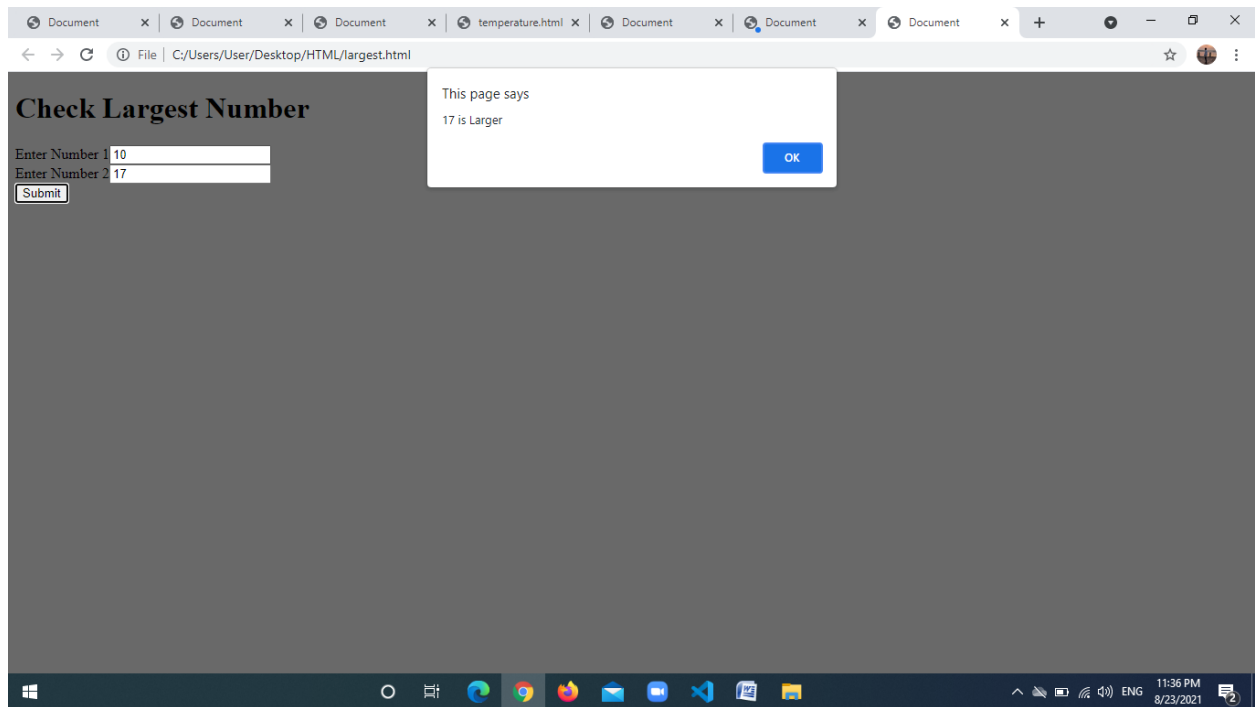
Q3. Write a javascript program that accepts two integers and display the larger.

CODE



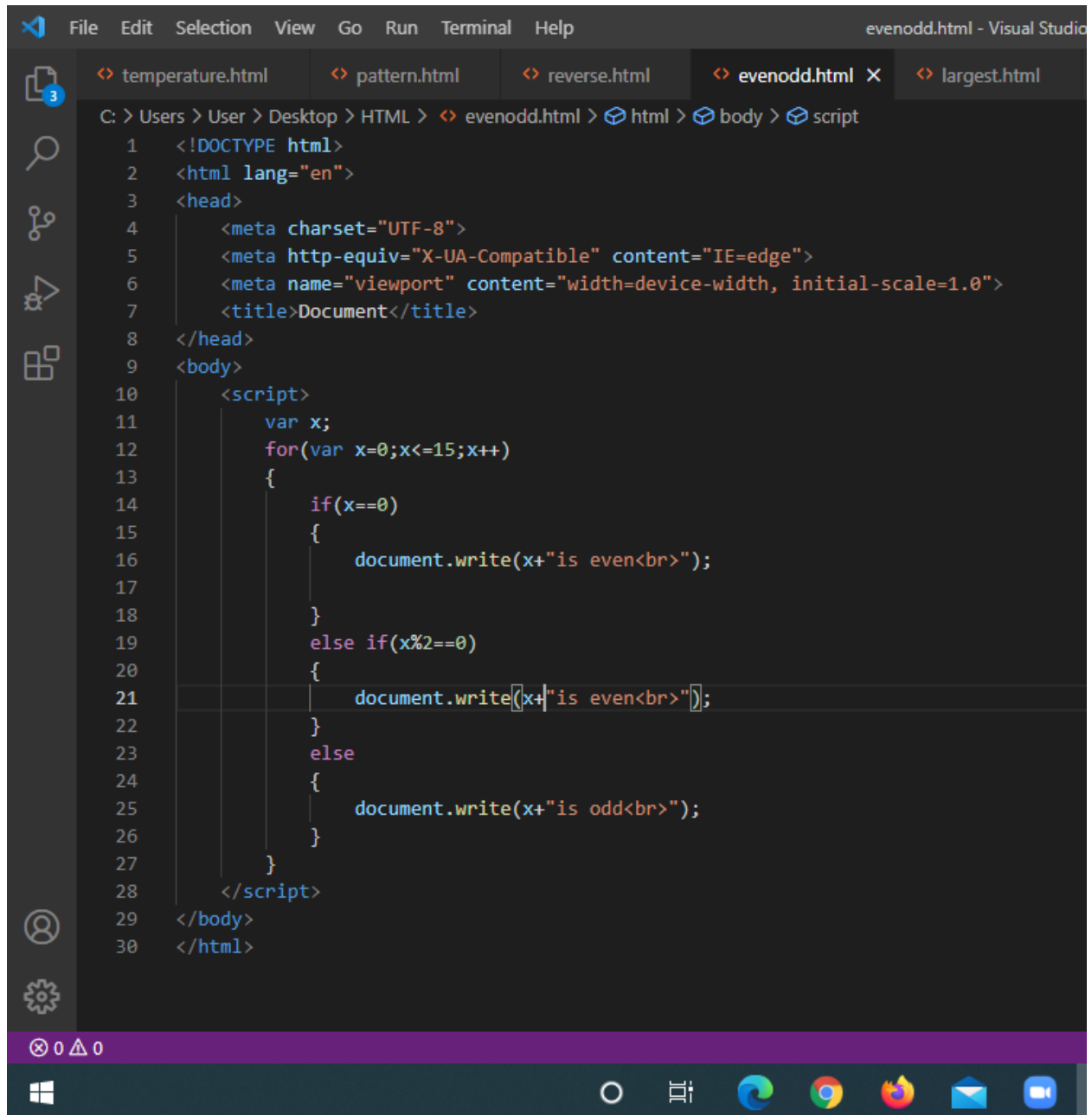
```
File Edit Selection View Go Run Terminal Help largest.html - Visual Studio Code
temperature.html pattern.html reverse.html evenodd.html largest.html X
C:\Users\User\Desktop\HTML> largest.html > html > body
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <script>
9     function largest()
10    {
11      var num1,num2;
12      num1=Number(document.getElementById("fnum").value);
13      num2=Number(document.getElementById("snum").value);
14      if(num1>num2)
15      {
16        window.alert(num1+" is Larger");
17      }
18      else
19      {
20        window.alert(num2+" is Larger");
21      }
22    }
23  </script>
24 </head>
25 <body style="background-color: #d3d3d3;">
26   <h1>Check Largest Number</h1>
27   Enter Number 1<input type="text" id="fnum"></input><br>
28   Enter Number 2<input type="text" id="snum"></input><br>
29   <button onclick="largest()">Submit</button>
30 </body>
31 </html>
```

OUTPUT



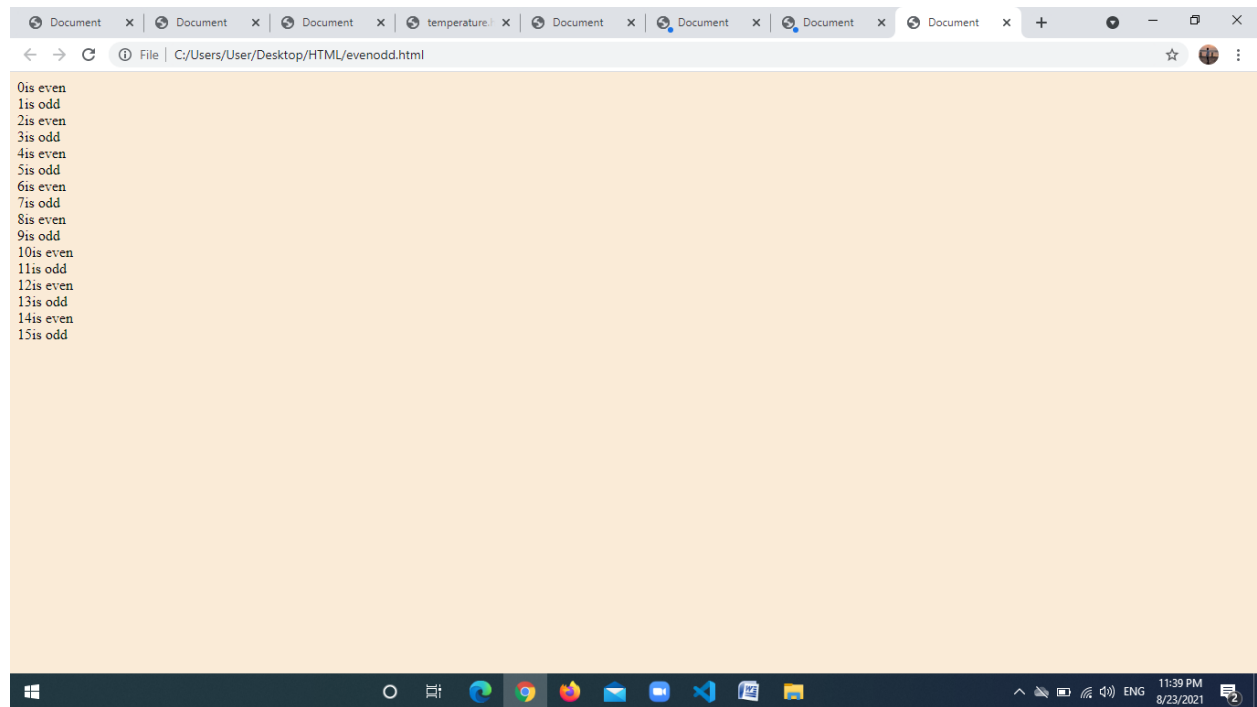
Q4. Write a javascript program for loop will iterate from 0 to 15. For each iteration it will check if the current number is odd or even and display a message on screen.

CODE



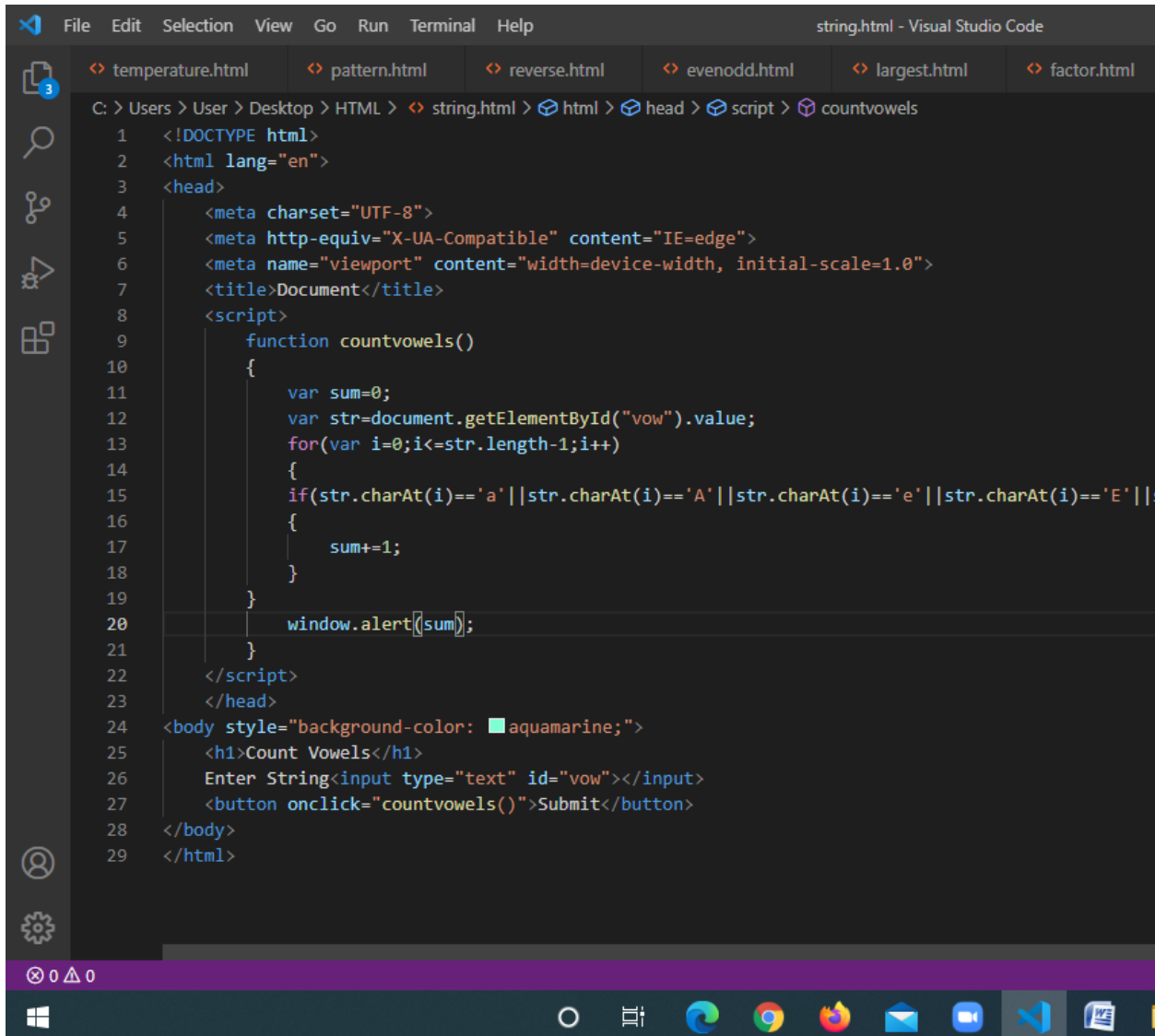
```
File Edit Selection View Go Run Terminal Help evenodd.html - Visual Studio Code
temperature.html pattern.html reverse.html evenodd.html X largest.html
C: > Users > User > Desktop > HTML > <> evenodd.html > html > body > script
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <body>
10   <script>
11     var x;
12     for(var x=0;x<=15;x++)
13     {
14       if(x==0)
15       {
16         document.write(x+"is even<br>");
17       }
18       else if(x%2==0)
19       {
20         document.write(x+"is even<br>");
21       }
22       else
23       {
24         document.write(x+"is odd<br>");
25       }
26     }
27   </script>
28 </body>
29 </html>
30
```

OUTPUT



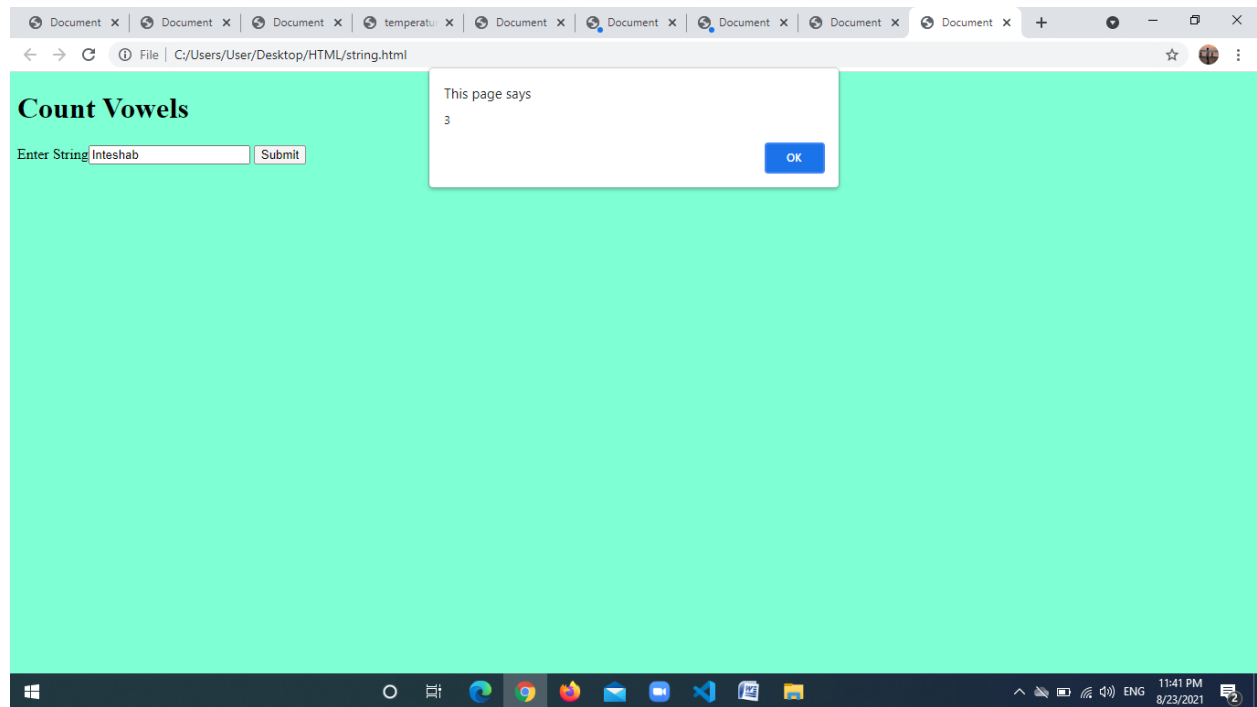
Q5. Write a javascript program taht accepts a string as a parameter and counts the number of vowels and prints it.

CODE



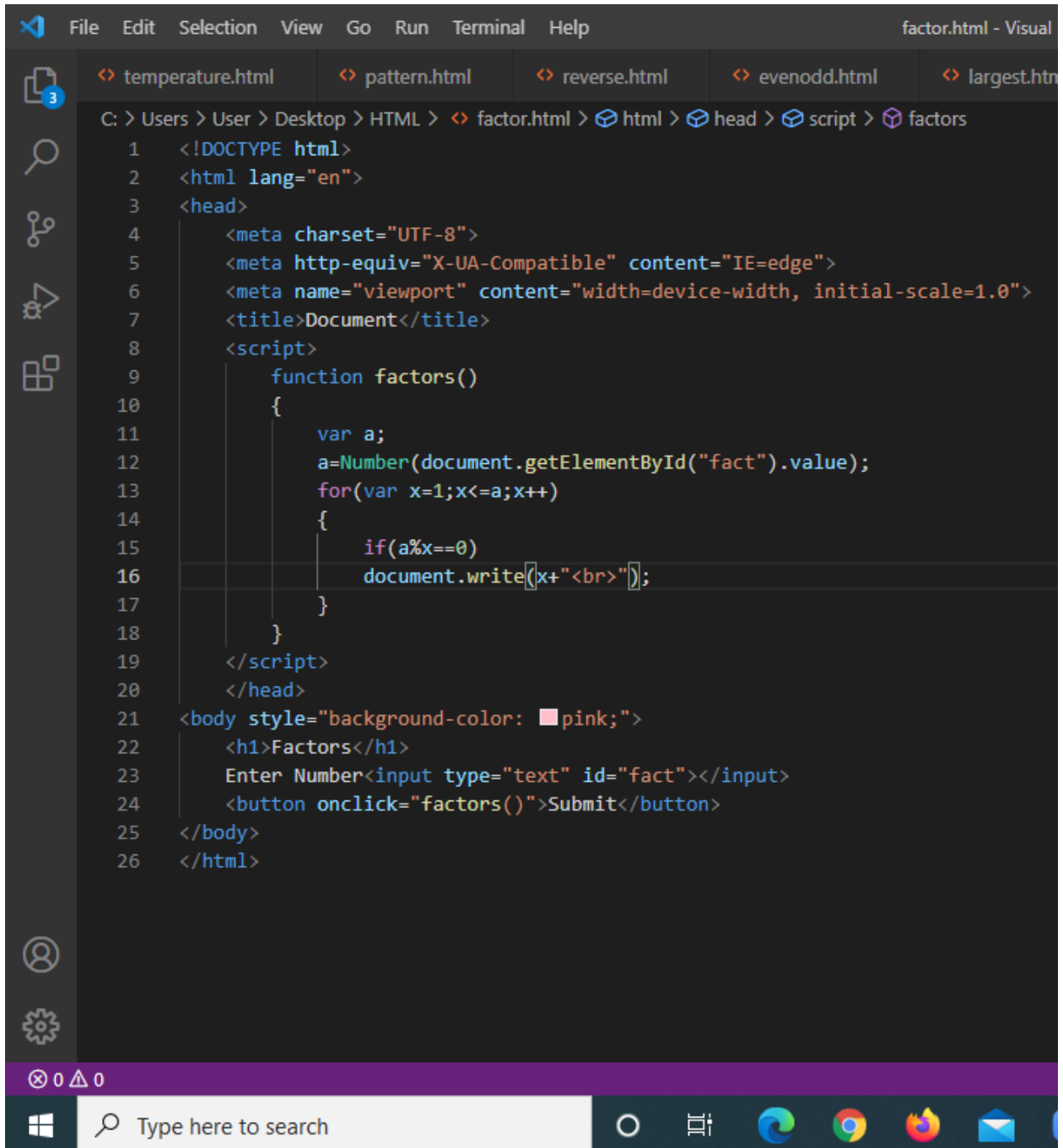
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <script>
9     function countvowels()
10    {
11      var sum=0;
12      var str=document.getElementById("vow").value;
13      for(var i=0;i<=str.length-1;i++)
14      {
15        if(str.charAt(i)=='a' || str.charAt(i)=='A' || str.charAt(i)=='e' || str.charAt(i)=='E' ||
16        {
17          sum+=1;
18        }
19      }
20      window.alert(sum);
21    }
22  </script>
23 </head>
24 <body style="background-color: aquamarine;">
25   <h1>Count Vowels</h1>
26   Enter String<input type="text" id="vow"></input>
27   <button onclick="countvowels()">Submit</button>
28 </body>
29 </html>
```

OUTPUT



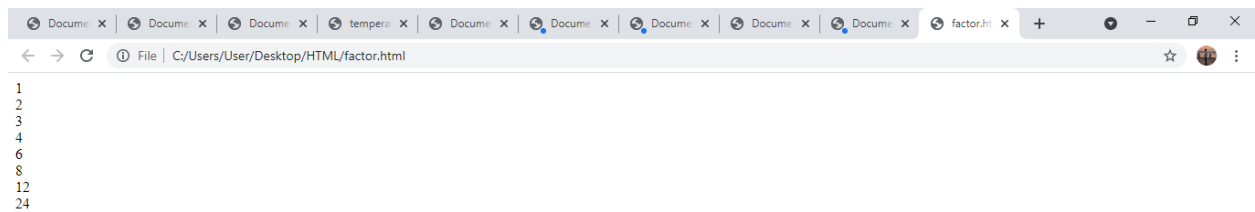
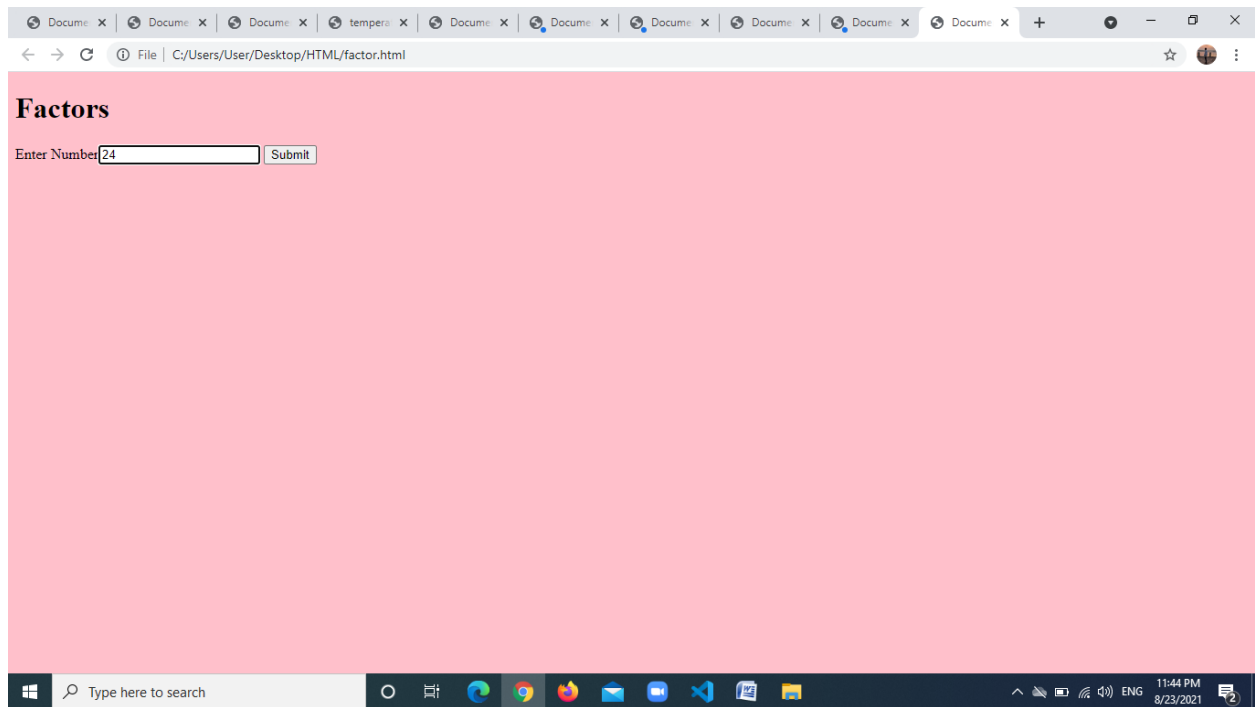
Q6. Write a javascript program to compute the factors of a positive integer.

CODE



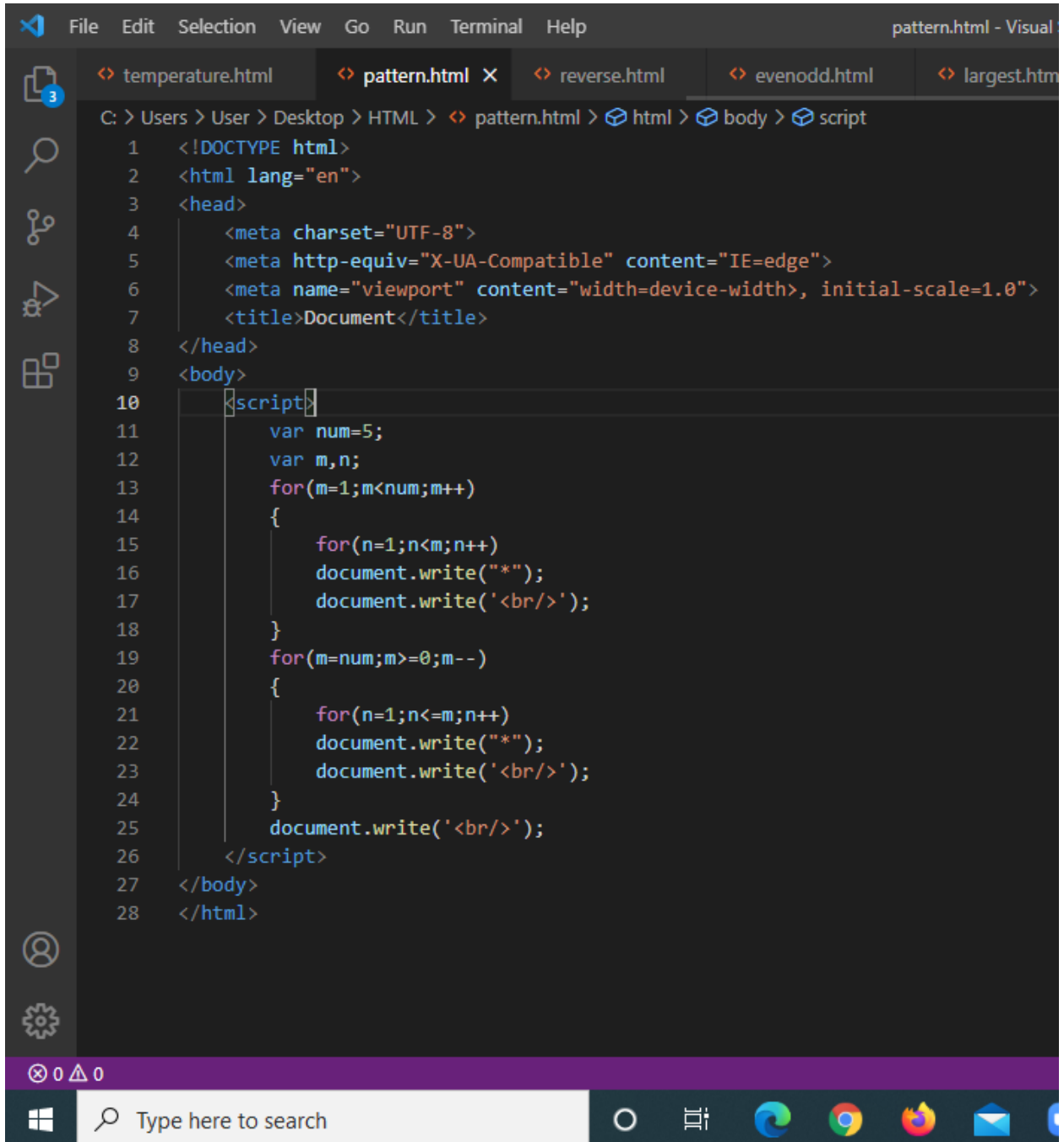
```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8      <script>
9          function factors()
10         {
11             var a;
12             a=Number(document.getElementById("fact").value);
13             for(var x=1;x<=a;x++)
14             {
15                 if(a%x==0)
16                     document.write(x+"<br>");
17             }
18         }
19     </script>
20 </head>
21 <body style="background-color: #pink;">
22     <h1>Factors</h1>
23     Enter Number<input type="text" id="fact"></input>
24     <button onclick="factors()">Submit</button>
25 </body>
26 </html>
```

OUTPUT



Q7. Write a javascript program to print the pattern

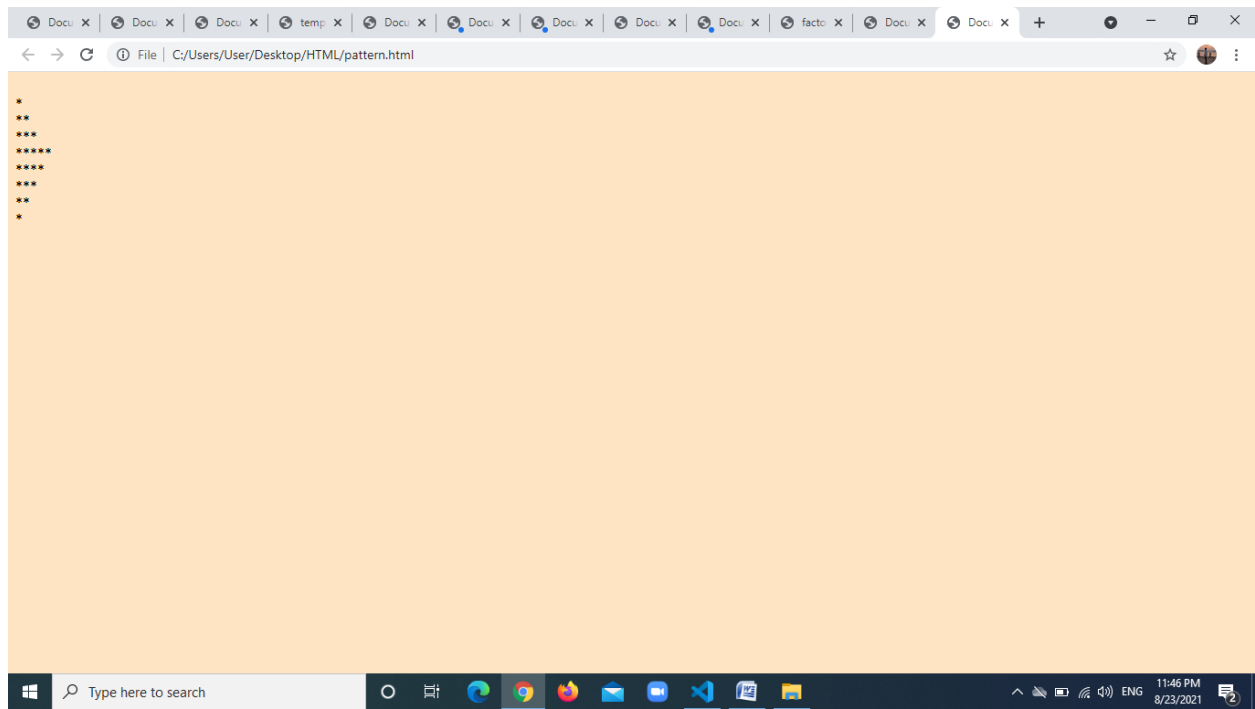
CODE



The screenshot shows the Visual Studio Code editor with a file named 'pattern.html' open. The code is an HTML document with a JavaScript script embedded in the body. The script defines a variable 'num' as 5, then uses nested loops to print a pattern of asterisks. The pattern consists of two parts: the first part prints asterisks from 1 to 5 rows, and the second part prints asterisks from 5 rows down to 1. Each row is followed by a line break.

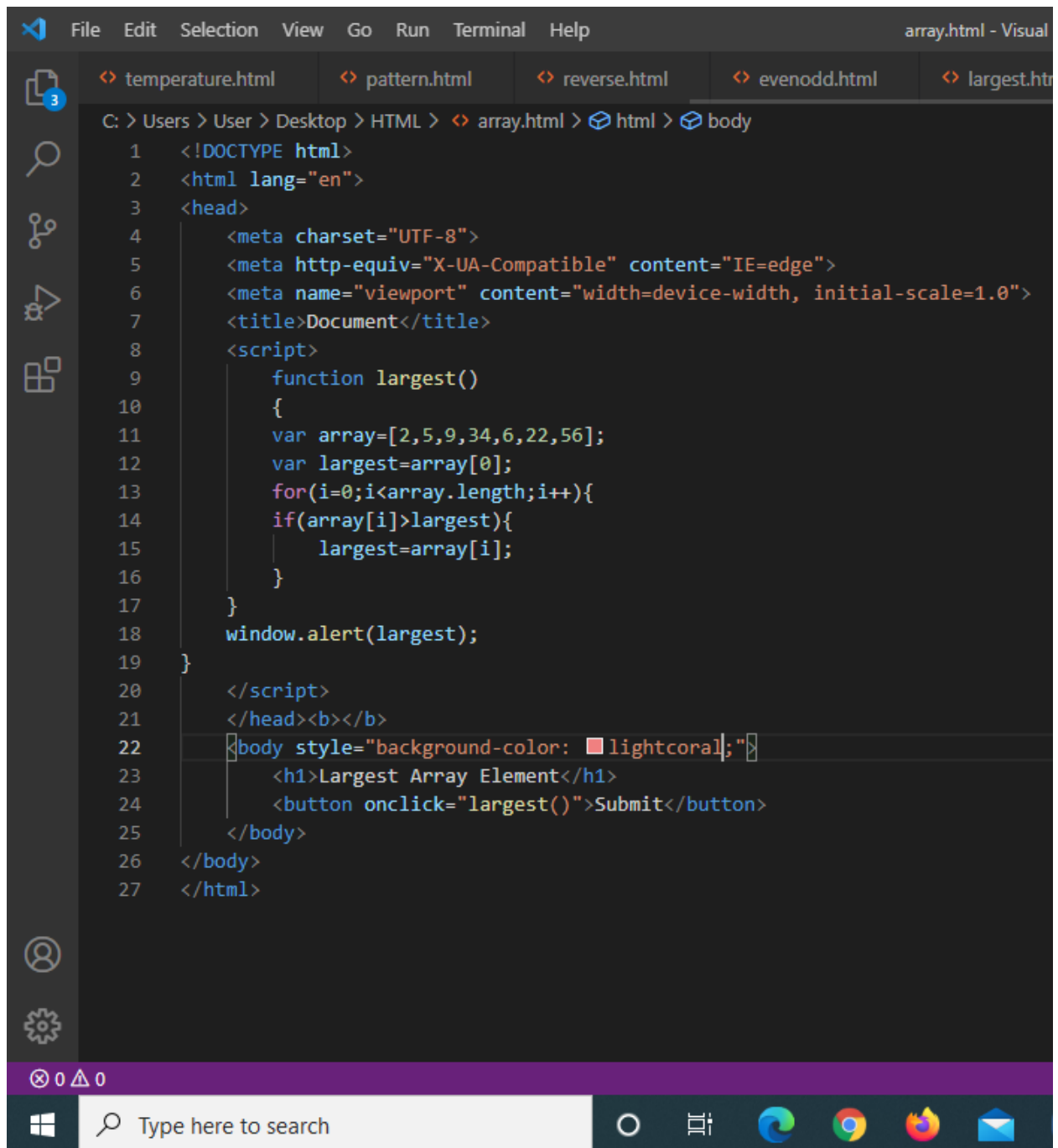
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <body>
10   <script>
11     var num=5;
12     var m,n;
13     for(m=1;m<num;m++)
14     {
15       for(n=1;n<m;n++)
16         document.write("*");
17       document.write('<br/>');
18     }
19     for(m=num;m>=0;m--)
20     {
21       for(n=1;n<=m;n++)
22         document.write("*");
23       document.write('<br/>');
24     }
25     document.write('<br/>');
26   </script>
27 </body>
28 </html>
```

OUTPUT



Q8. Write a javascript program that returns the largest number in the array.

CODE

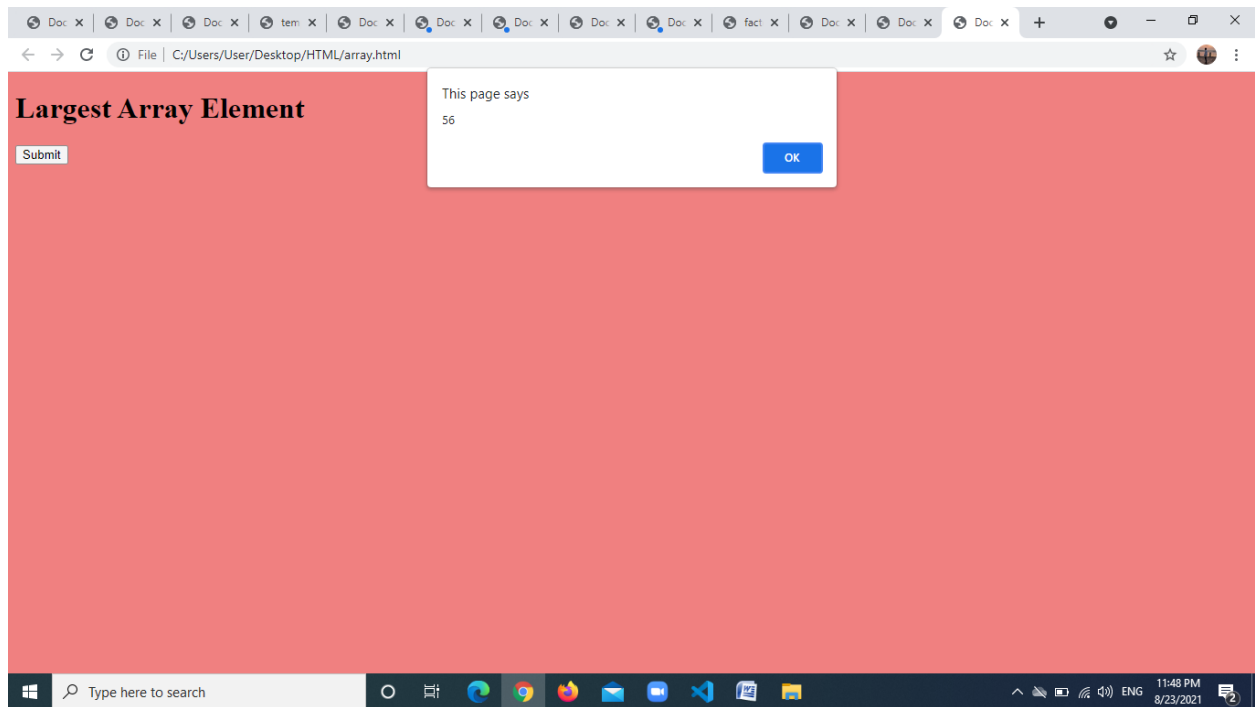


The screenshot shows the Visual Studio Code editor with a file named `array.html` open. The editor displays the following code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <script>
9     function largest()
10    {
11      var array=[2,5,9,34,6,22,56];
12      var largest=array[0];
13      for(i=0;i<array.length;i++){
14        if(array[i]>largest){
15          largest=array[i];
16        }
17      }
18      window.alert(largest);
19    }
20  </script>
21 </head><b></b>
22 <body style="background-color: lightcoral;">
23   <h1>Largest Array Element</h1>
24   <button onclick="largest()">Submit</button>
25 </body>
26 </body>
27 </html>
```

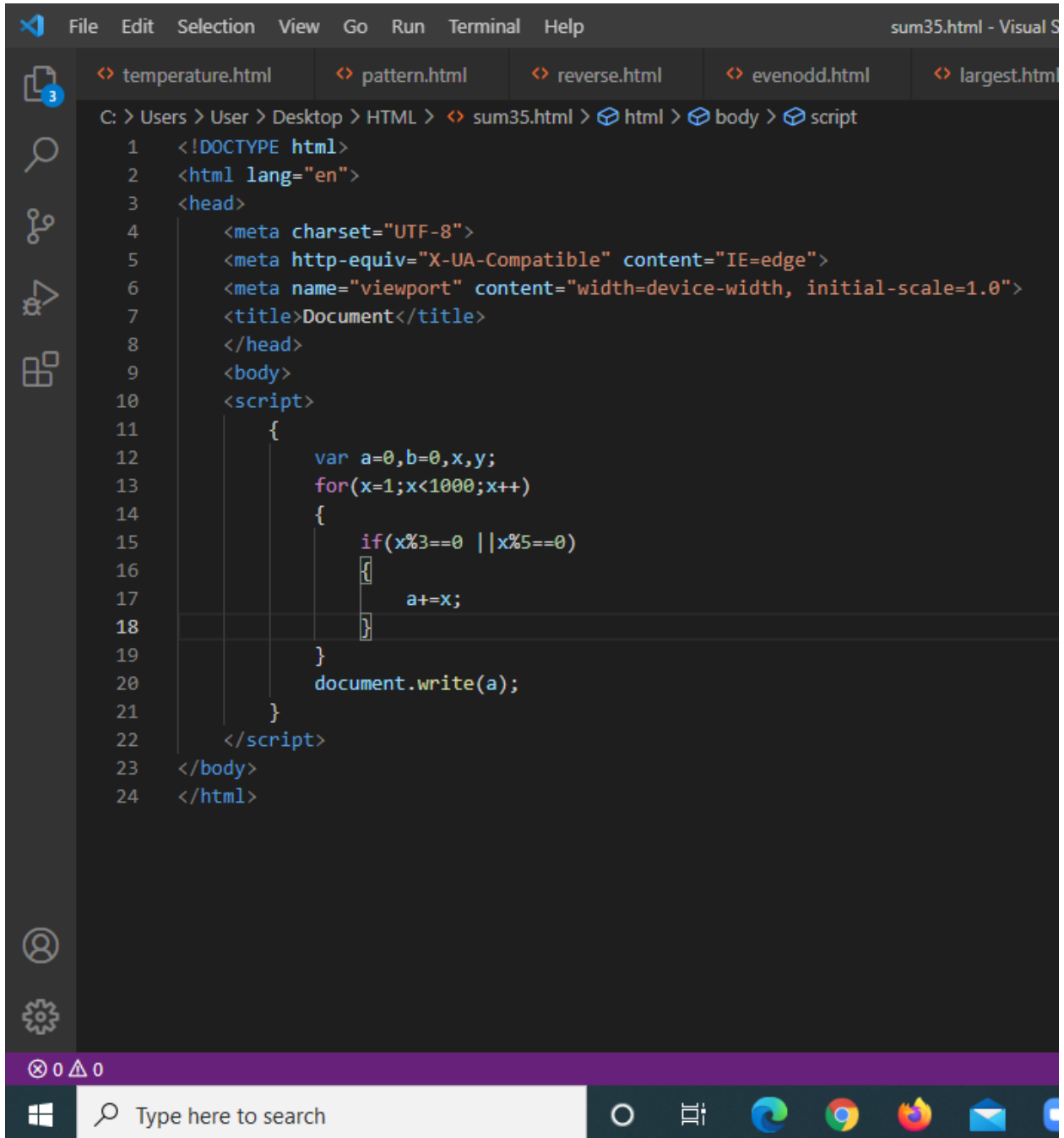
The code is a JavaScript program that finds the largest number in an array. The array is defined as `[2, 5, 9, 34, 6, 22, 56]`. The `largest` function iterates through the array, comparing each element to the current largest value. The largest value is then displayed in an alert box. The HTML document has a light coral background color and a button labeled "Submit" that triggers the `largest` function.

OUTPUT



Q9. Write a javascript program to sum the multiples of 3 and 5 under 1000.

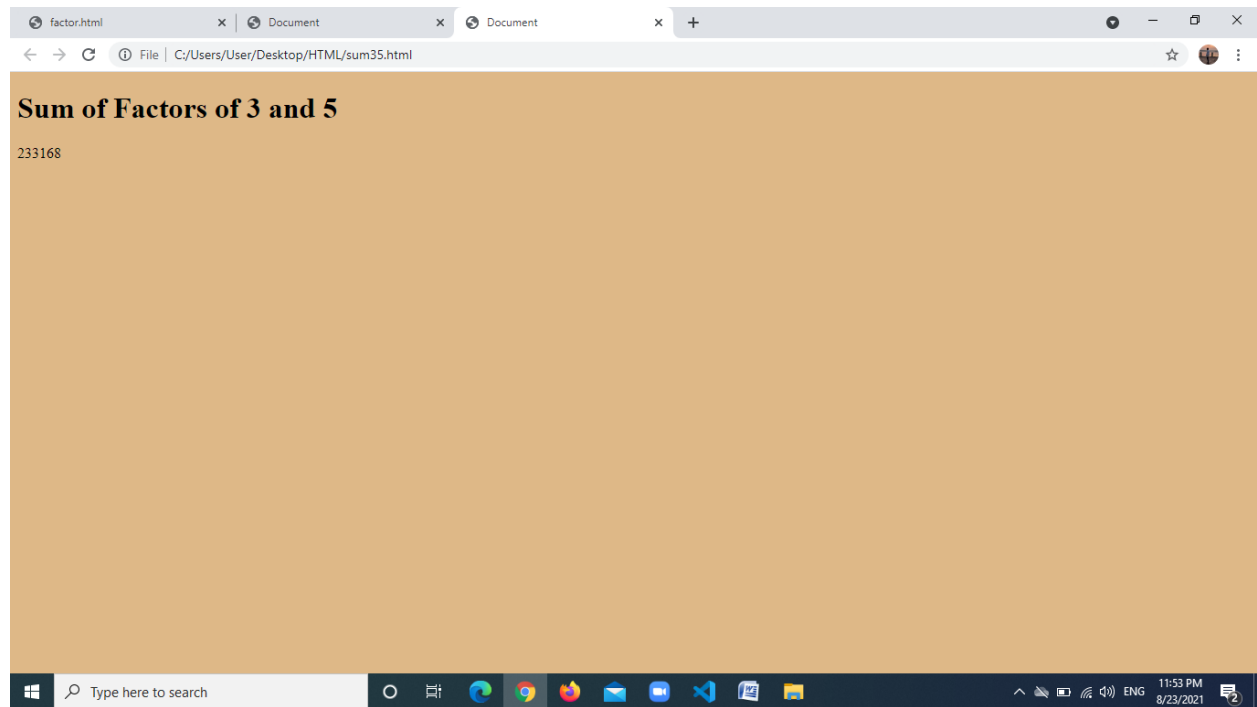
CODE



The screenshot shows a Visual Studio Code editor window with a file named 'sum35.html'. The editor displays an HTML document with a JavaScript script embedded within the body. The script calculates the sum of all multiples of 3 and 5 below 1000. The file explorer on the left shows several other files: 'temperature.html', 'pattern.html', 'reverse.html', 'evenodd.html', and 'largest.html'. The status bar at the bottom indicates 0 errors, 0 warnings, and 0 information messages.

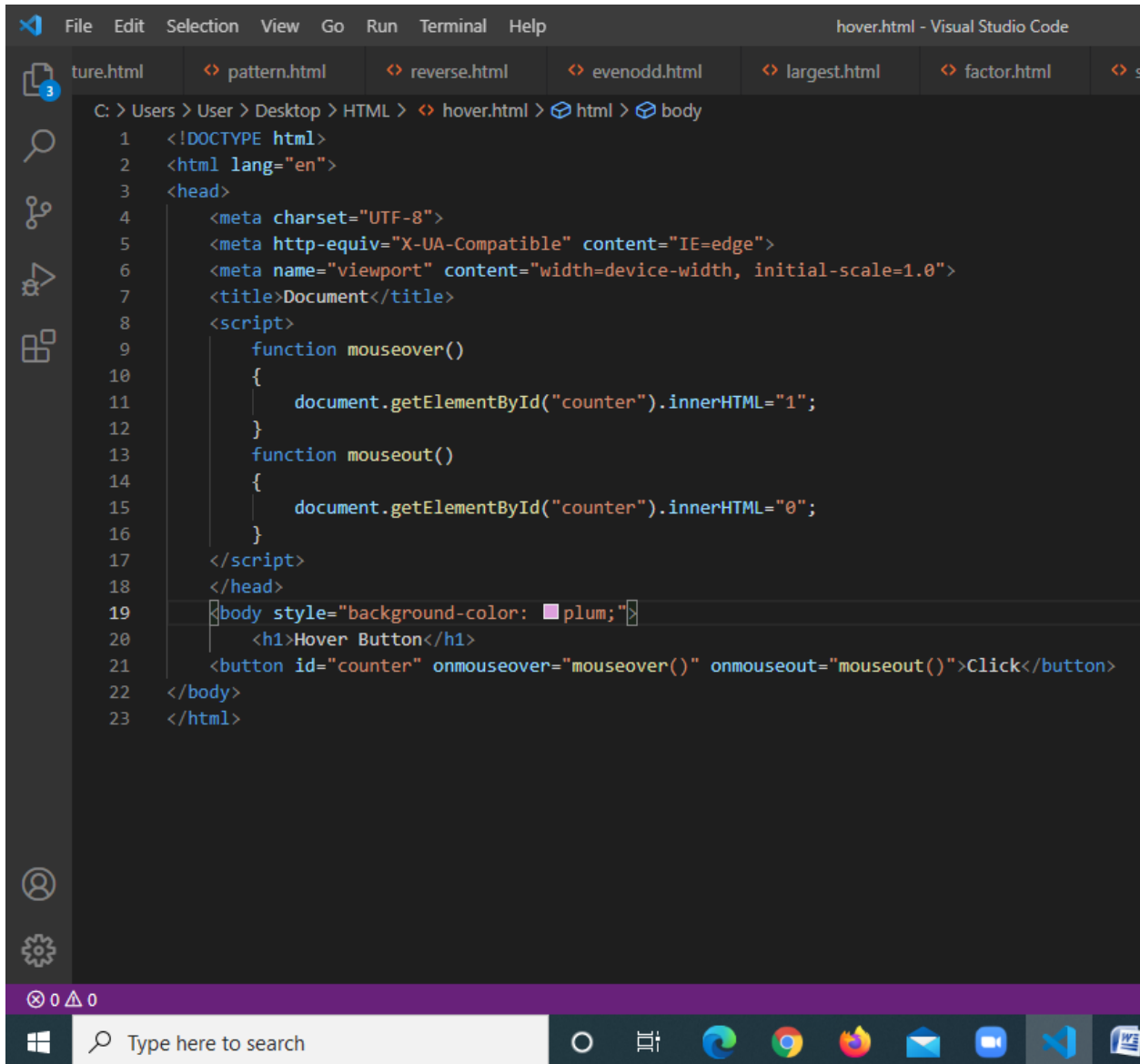
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <body>
10  <script>
11    {
12      var a=0,b=0,x,y;
13      for(x=1;x<1000;x++)
14      {
15        if(x%3==0 || x%5==0)
16        {
17          a+=x;
18        }
19      }
20      document.write(a);
21    }
22  </script>
23 </body>
24 </html>
```

OUTPUT



Q10. Write a javascript counter program. On the button hover, the counter should read 1 and 0 when the mouse hovers out of the button.

CODE



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <script>
9     function mouseover()
10    {
11      document.getElementById("counter").innerHTML="1";
12    }
13    function mouseout()
14    {
15      document.getElementById("counter").innerHTML="0";
16    }
17  </script>
18 </head>
19 <body style="background-color: plum;">
20   <h1>Hover Button</h1>
21   <button id="counter" onmouseover="mouseover()" onmouseout="mouseout()">Click</button>
22 </body>
23 </html>
```

OUTPUT

