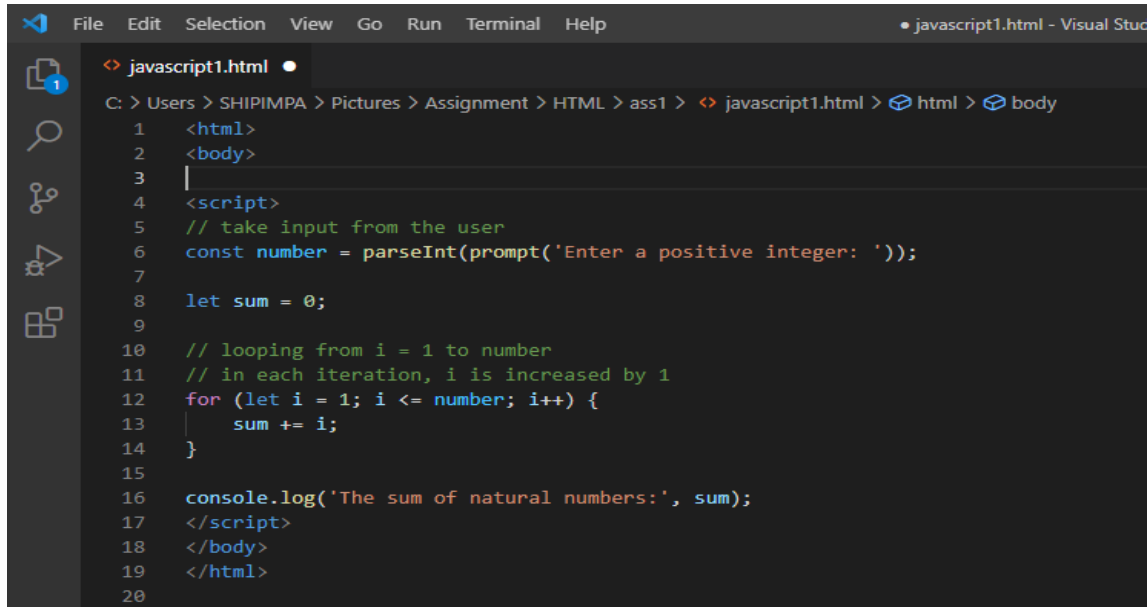


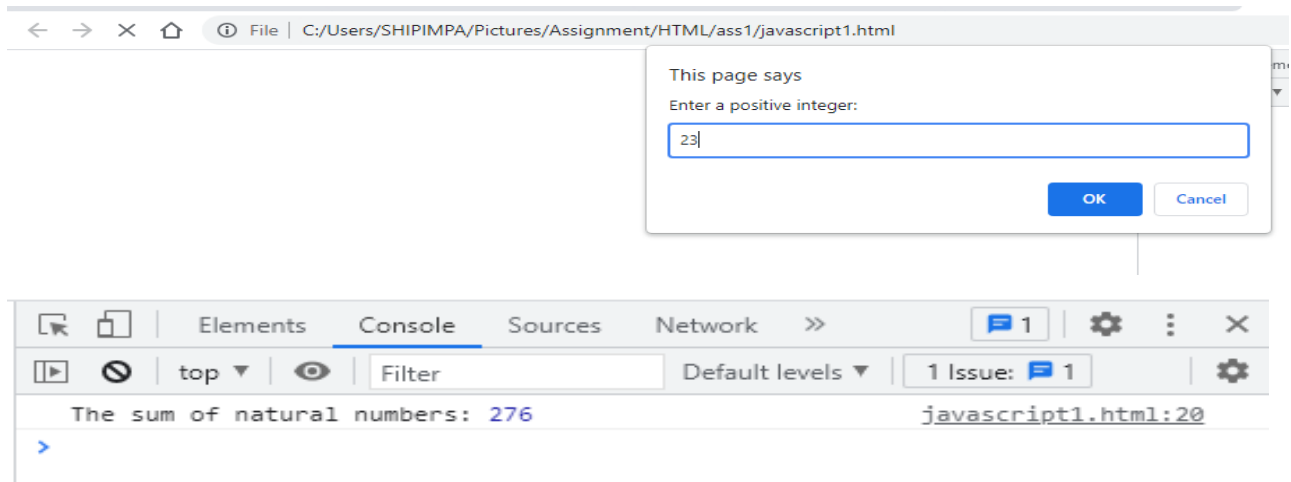
# Assignment No.1

1

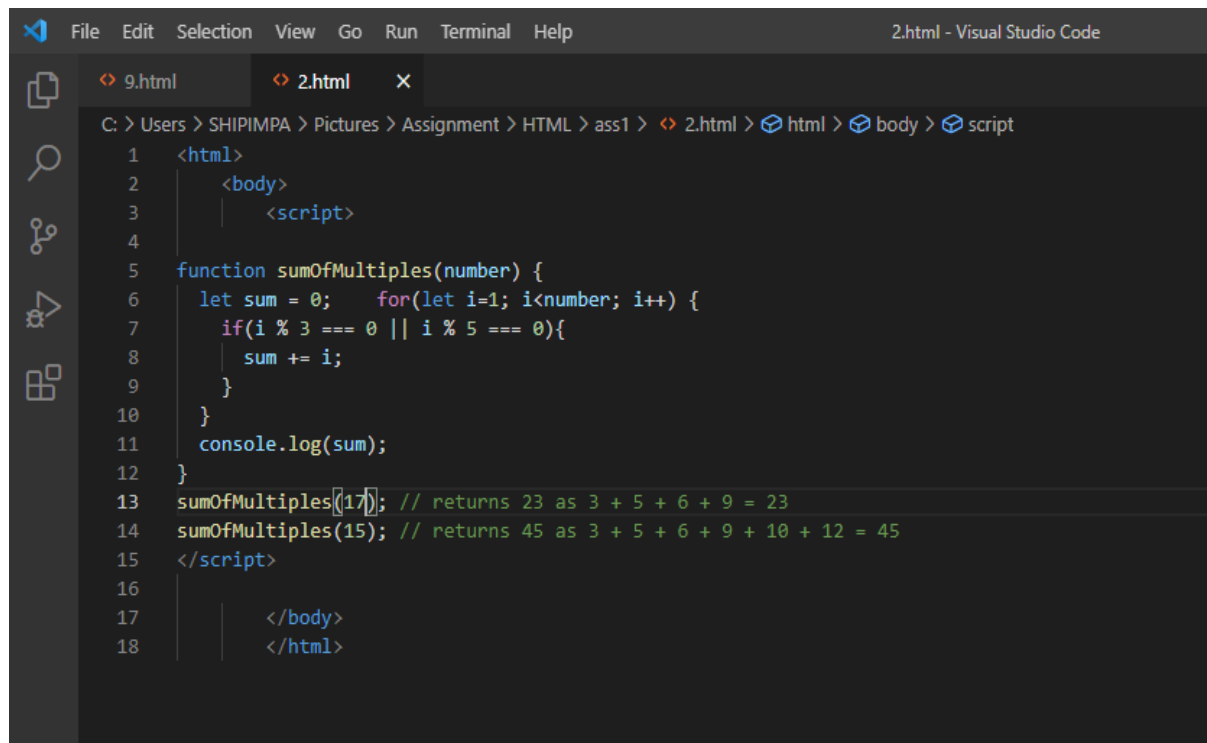


```
File Edit Selection View Go Run Terminal Help
• javascript1.html - Visual Studio Code

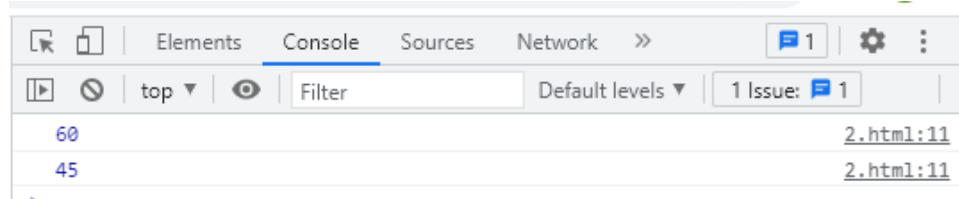
C: > Users > SHIPIMPA > Pictures > Assignment > HTML > ass1 > javascript1.html > html > body
1 <html>
2 <body>
3
4 <script>
5 // take input from the user
6 const number = parseInt(prompt('Enter a positive integer: '));
7
8 let sum = 0;
9
10 // looping from i = 1 to number
11 // in each iteration, i is increased by 1
12 for (let i = 1; i <= number; i++) {
13     sum += i;
14 }
15
16 console.log('The sum of natural numbers:', sum);
17 </script>
18 </body>
19 </html>
20
```



2

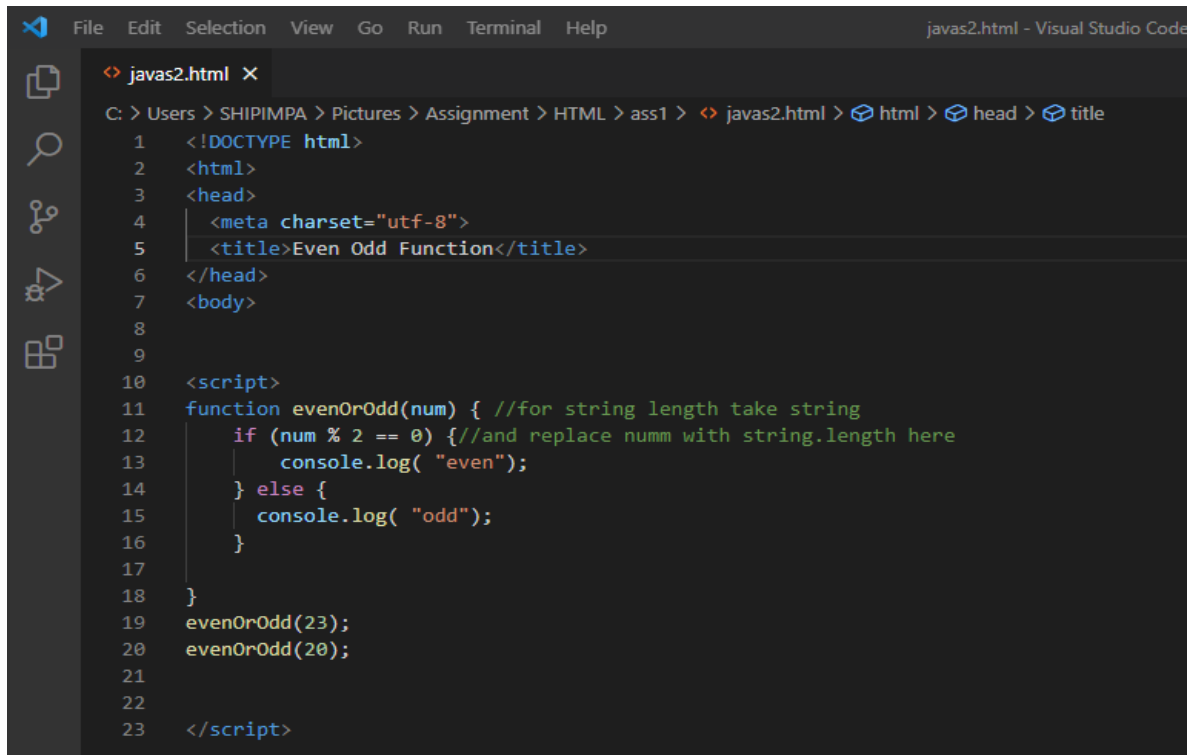


```
1 <html>
2   <body>
3     <script>
4
5     function sumOfMultiples(number) {
6       let sum = 0;   for(let i=1; i<number; i++) {
7         if(i % 3 === 0 || i % 5 === 0){
8           sum += i;
9         }
10      }
11      console.log(sum);
12    }
13    sumOfMultiples(17); // returns 23 as 3 + 5 + 6 + 9 = 23
14    sumOfMultiples(15); // returns 45 as 3 + 5 + 6 + 9 + 10 + 12 = 45
15  </script>
16
17  </body>
18 </html>
```



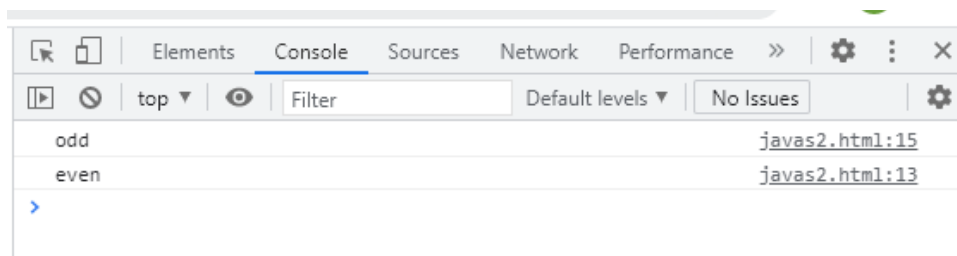
60	2.html:11
45	2.html:11

3



```
File Edit Selection View Go Run Terminal Help
javas2.html - Visual Studio Code

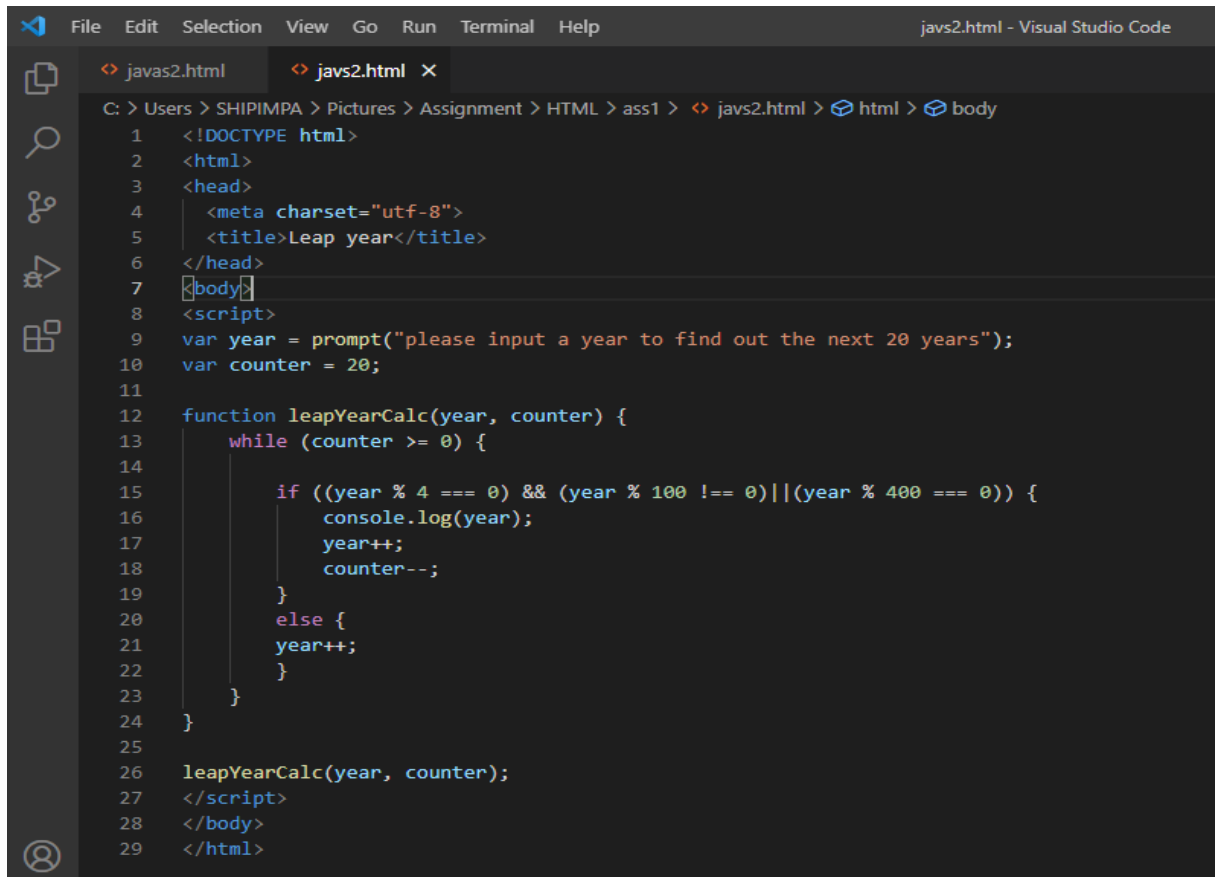
< > javas2.html X
C: > Users > SHIPIMPA > Pictures > Assignment > HTML > ass1 > < > javas2.html > html > head > title
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8">
5   <title>Even Odd Function</title>
6 </head>
7 <body>
8
9
10 <script>
11 function evenOrOdd(num) { //for string length take string
12   if (num % 2 == 0) { //and replace numm with string.length here
13     console.log( "even");
14   } else {
15     console.log( "odd");
16   }
17 }
18
19 evenOrOdd(23);
20 evenOrOdd(20);
21
22
23 </script>
```



Elements Console Sources Network Performance >> ⚙️ ⋮ ✕	
▶ ⏏ top 🔍 Filter Default levels No Issues ⚙️	
odd	javas2.html:15
even	javas2.html:13
>	

4

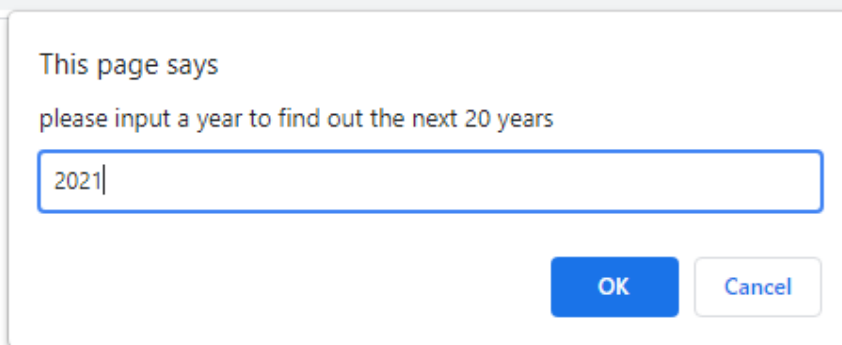
5



```
File Edit Selection View Go Run Terminal Help
javs2.html - Visual Studio Code

javs2.html javs2.html X
C: > Users > SHIPIMPA > Pictures > Assignment > HTML > ass1 > javs2.html > html > body
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8">
5   <title>Leap year</title>
6 </head>
7 <body>
8 <script>
9   var year = prompt("please input a year to find out the next 20 years");
10  var counter = 20;
11
12  function leapYearCalc(year, counter) {
13    while (counter >= 0) {
14      if ((year % 4 === 0) && (year % 100 !== 0) || (year % 400 === 0)) {
15        console.log(year);
16        year++;
17        counter--;
18      }
19      else {
20        year++;
21      }
22    }
23  }
24
25  leapYearCalc(year, counter);
26 </script>
27 </body>
28 </html>
```

nent/HTML/ass1/javs2.html



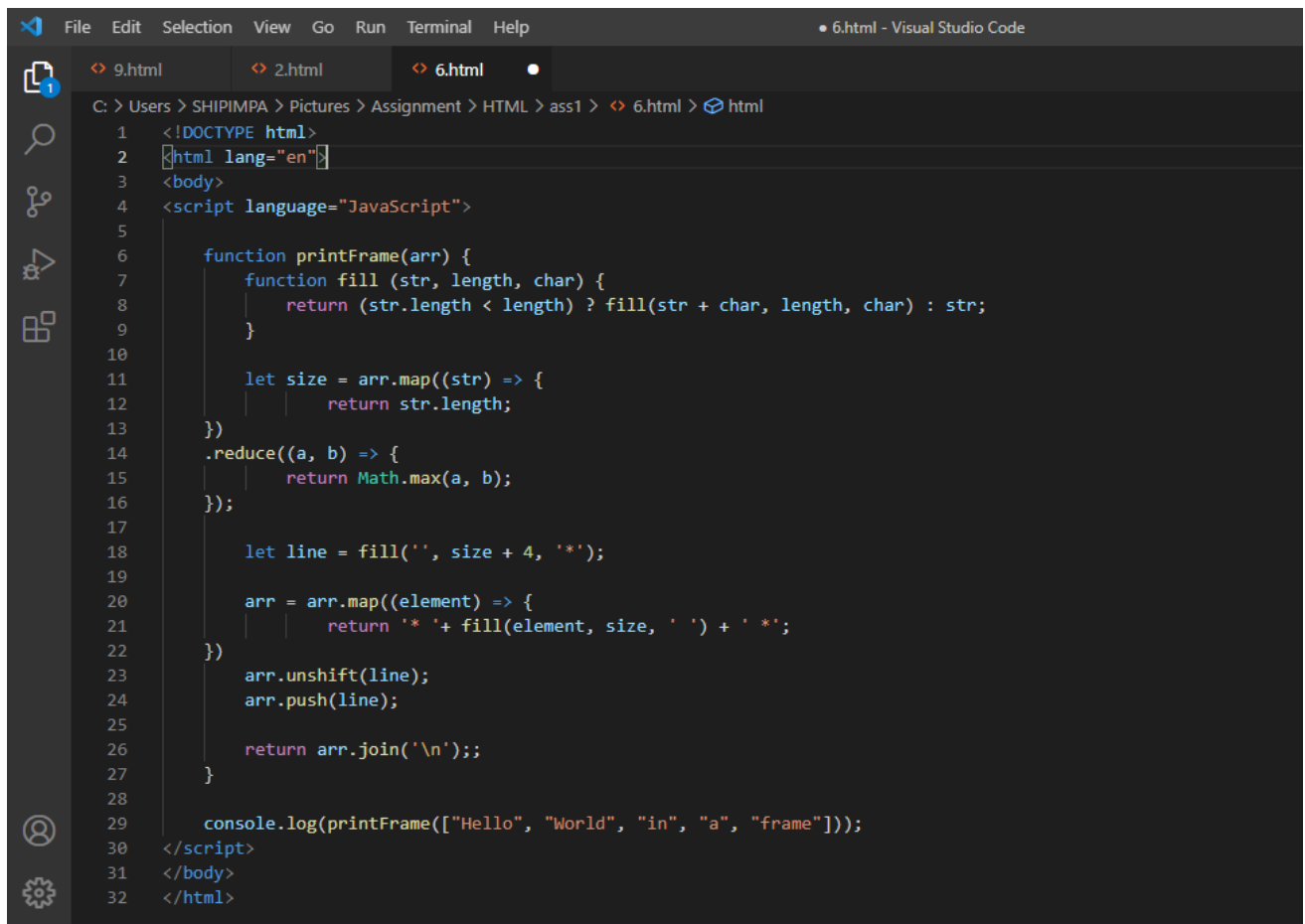
This page says

please input a year to find out the next 20 years

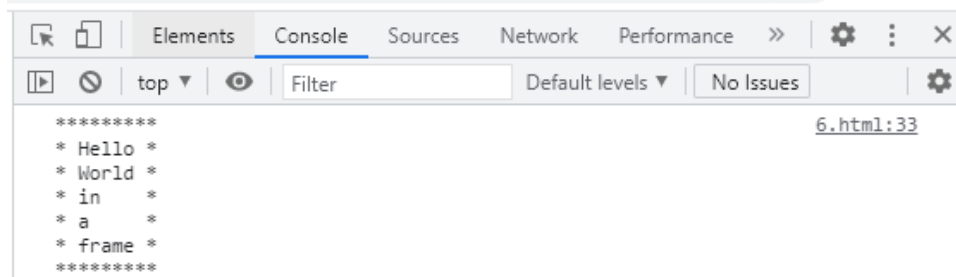
OK Cancel

Elements Console Sources Network Performance >> ⚙️ ⋮ ✕	
Select an element to open it in the page. Filter inspect it Ctrl + Shift + I Default levels ▼ No Issues ⚙️	
2024	<a href="#">javs2.html:16</a>
2028	<a href="#">javs2.html:16</a>
2032	<a href="#">javs2.html:16</a>
2036	<a href="#">javs2.html:16</a>
2040	<a href="#">javs2.html:16</a>
2044	<a href="#">javs2.html:16</a>
2048	<a href="#">javs2.html:16</a>
2052	<a href="#">javs2.html:16</a>
2056	<a href="#">javs2.html:16</a>
2060	<a href="#">javs2.html:16</a>
2064	<a href="#">javs2.html:16</a>
2068	<a href="#">javs2.html:16</a>
2072	<a href="#">javs2.html:16</a>
2076	<a href="#">javs2.html:16</a>
2080	<a href="#">javs2.html:16</a>
2084	<a href="#">javs2.html:16</a>
2088	<a href="#">javs2.html:16</a>
2092	<a href="#">javs2.html:16</a>
2096	<a href="#">javs2.html:16</a>
2104	<a href="#">javs2.html:16</a>
2108	<a href="#">javs2.html:16</a>
>	

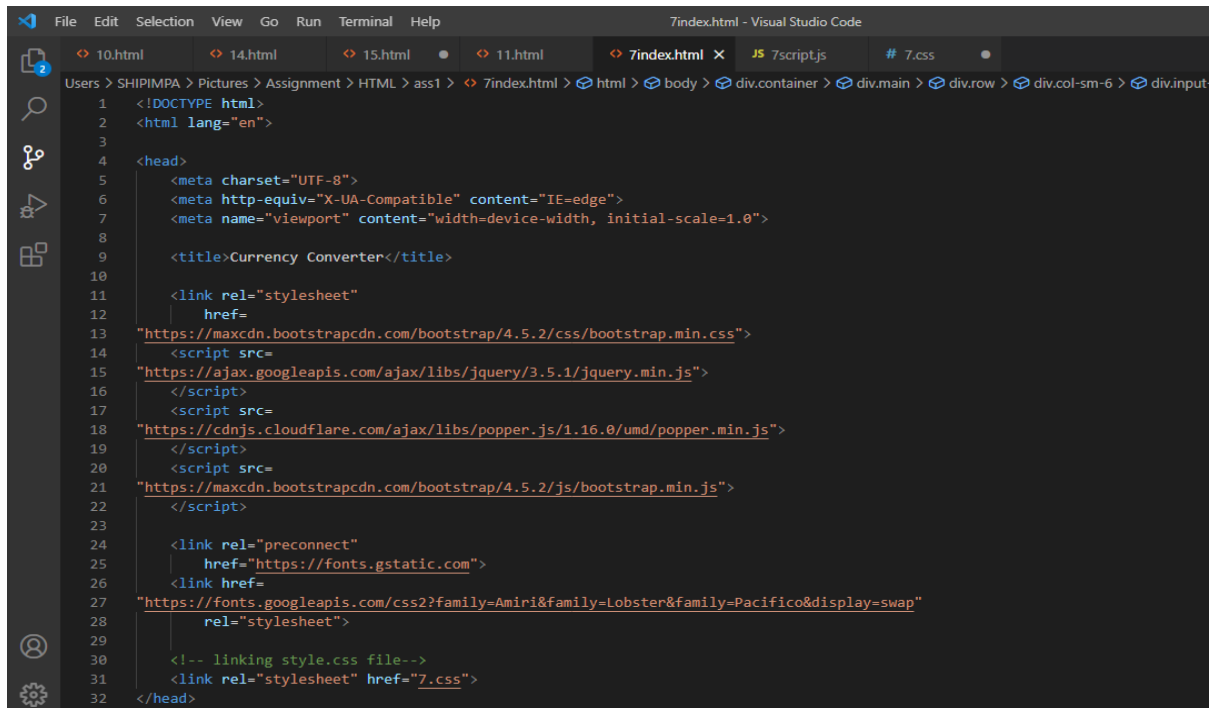
6



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <body>
4 <script language="JavaScript">
5
6     function printFrame(arr) {
7         function fill (str, length, char) {
8             return (str.length < length) ? fill(str + char, length, char) : str;
9         }
10
11         let size = arr.map((str) => {
12             return str.length;
13         })
14         .reduce((a, b) => {
15             return Math.max(a, b);
16         });
17
18         let line = fill('', size + 4, '*');
19
20         arr = arr.map((element) => {
21             return '* ' + fill(element, size, ' ') + ' *';
22         })
23         arr.unshift(line);
24         arr.push(line);
25
26         return arr.join('\n');
27     }
28
29     console.log(printFrame(["Hello", "World", "in", "a", "frame"]));
30 </script>
31 </body>
32 </html>
```



```
*****
* Hello *
* World *
* in   *
* a    *
* frame *
*****
```



```
File Edit Selection View Go Run Terminal Help
7index.html - Visual Studio Code

10.html 14.html 15.html 11.html 7index.html x JS 7script.js # 7.css

Users > SHIPIMPA > Pictures > Assignment > HTML > ass1 > 7index.html > html > body > div.container > div.main > div.row > div.col-sm-6 > div.input

1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta http-equiv="X-UA-Compatible" content="IE=edge">
7   <meta name="viewport" content="width=device-width, initial-scale=1.0">
8
9   <title>Currency Converter</title>
10
11   <link rel="stylesheet"
12     href=
13     "https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
14   <script src=
15     "https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
16   </script>
17   <script src=
18     "https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js">
19   </script>
20   <script src=
21     "https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js">
22   </script>
23
24   <link rel="preconnect"
25     href="https://fonts.gstatic.com">
26   <link href=
27     "https://fonts.googleapis.com/css2?family=Amiri&family=Lobster&family=Pacifico&display=swap"
28     rel="stylesheet">
29
30   <!-- linking style.css file-->
31   <link rel="stylesheet" href="7.css">
32 </head>
```

```
File Edit Selection View Go Run Terminal Help 7scriptjs - Visual Studio Code
10.html 14.html 15.html 11.html 7index.html JS 7scriptjs # 7.css
C: > Users > SHIPIMPA > Pictures > Assignment > HTML > ass1 > JS 7scriptjs > ...
1 // include api for currency change
2 const api = "https://api.exchangerate-api.com/v4/latest/USD";
3
4 // for selecting different controls
5 var search = document.querySelector(".searchBox");
6 var convert = document.querySelector(".convert");
7 var fromCurrecy = document.querySelector(".from");
8 var toCurrecy = document.querySelector(".to");
9 var finalValue = document.querySelector(".finalValue");
10 var finalAmount = document.getElementById("finalAmount");
11 var resultFrom;
12 var resultTo;
13 var searchValue;
14
15 // Event when currency is changed
16 fromCurrecy.addEventListener('change', (event) => {
17     resultFrom = `${event.target.value}`;
18 });
19
20 // Event when currency is changed
21 toCurrecy.addEventListener('change', (event) => {
22     resultTo = `${event.target.value}`;
23 });
24
25 search.addEventListener('input', updateValue);
26
27 // function for updating value
28 function updateValue(e) {
29     searchValue = e.target.value;
30 }
31
```

```
File Edit Selection View Go Run Terminal Help 7scriptjs - Visual Studio Code
10.html 14.html 15.html 11.html 7index.html JS 7scriptjs # 7.css
C: > Users > SHIPIMPA > Pictures > Assignment > HTML > ass1 > JS 7scriptjs > ...
30 }
31
32 // when user clicks, it calls function getresults
33 convert.addEventListener("click", getResults);
34
35 // function getresults
36 function getResults() {
37     fetch(`${api}`)
38         .then(currency => {
39             return currency.json();
40         }).then(displayResults);
41 }
42
43 // display results after conversion
44 function displayResults(currency) {
45     let fromRate = currency.rates[resultFrom];
46     let toRate = currency.rates[resultTo];
47     finalValue.innerHTML =
48     ((toRate / fromRate) * searchValue).toFixed(2);
49     finalAmount.style.display = "block";
50 }
51
52 // when user click on reset button
53 function clearVal() {
54     window.location.reload();
55     document.getElementsByClassName("finalValue").innerHTML = "";
56 };
57
```



← → ↻ 🏠 📄 File | C:/Users/SHIPIMPA/Pictures/Assignment/HTML/ass1/7/index.html ☆

# Currency Converter

Amount to Convert :

From INR To USD

Convert Reset

Converted Amount : 0.31

8

File Edit Selection View Go Run Terminal Help 8.html - Visual Studio Code

8.html x

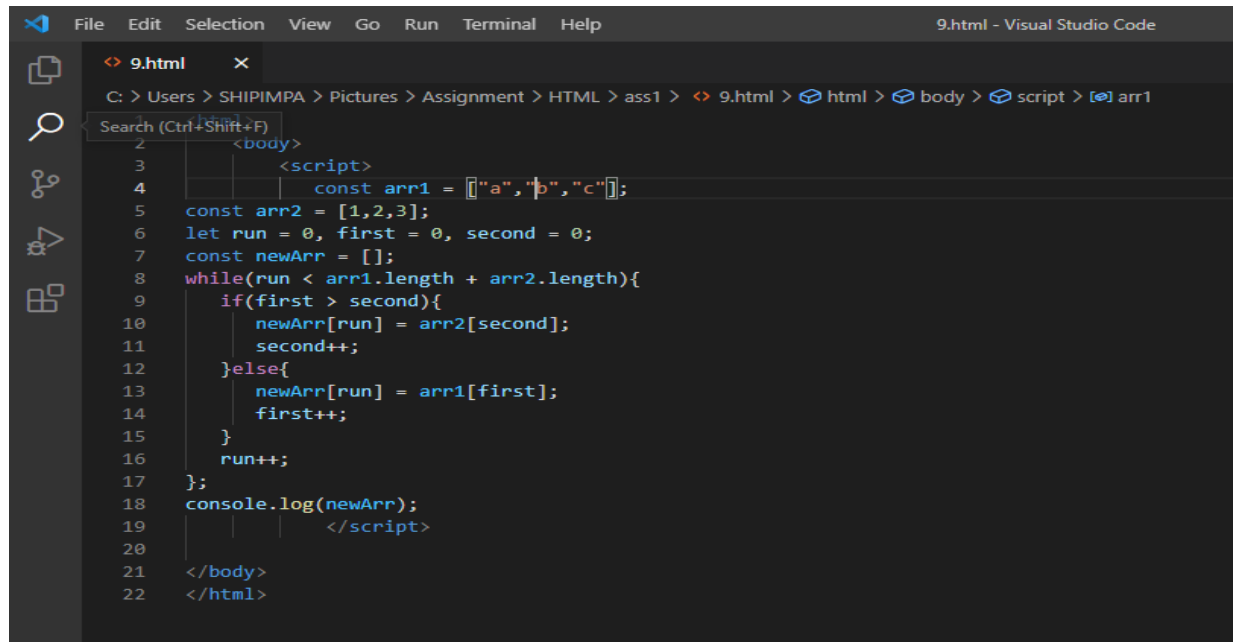
C: > Users > SHIPIMPA > Pictures > Assignment > HTML > ass1 > 8.html > html > body

```
1 <html>
2   <body>
3     <script>
4       // JavaScript code for concat() method
5       function func() {
6         var num1 = [11, 12, 13],
7             num2 = [14, 15, 16],
8             num3 = [17, 18, 19];
9         document.write(num1.concat(num2, num3));
10      }
11      func();
12    </script>
13
14  </body>
15 </html>
```

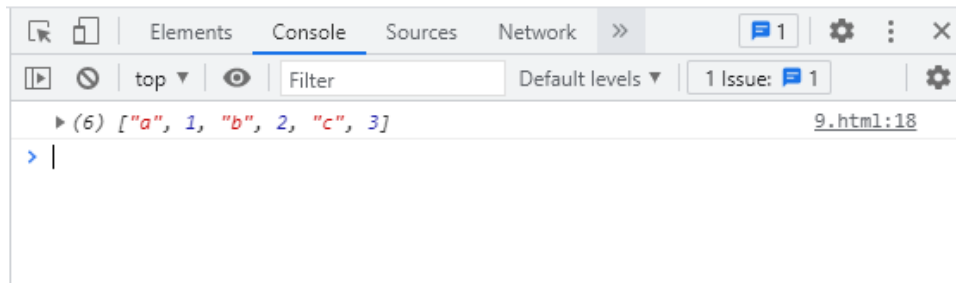
← → ↻ 🏠 📄 File | C:/Users/SHIPIMPA/Pictures/Assignment/HTML/ass1/8.html

11,12,13,14,15,16,17,18,19

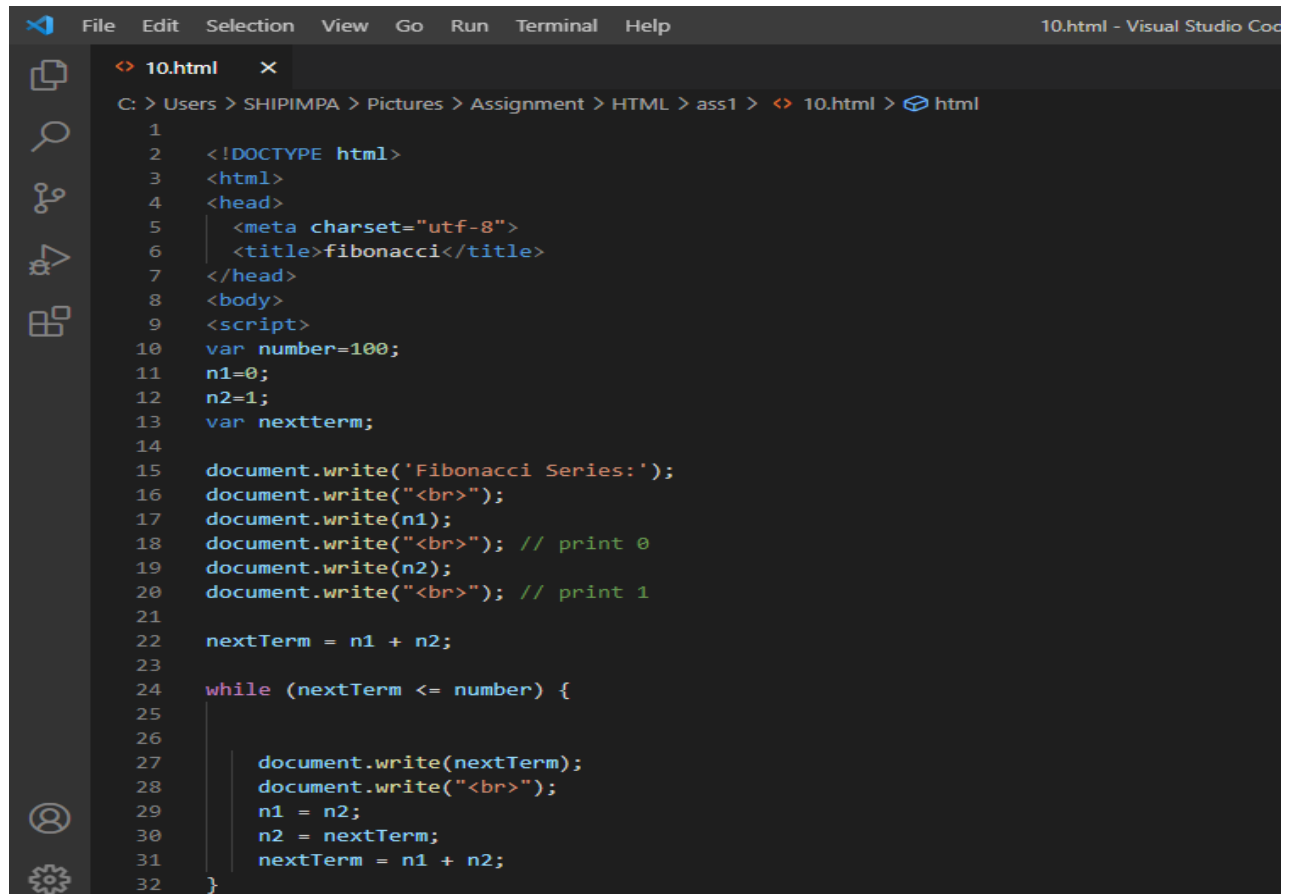
9



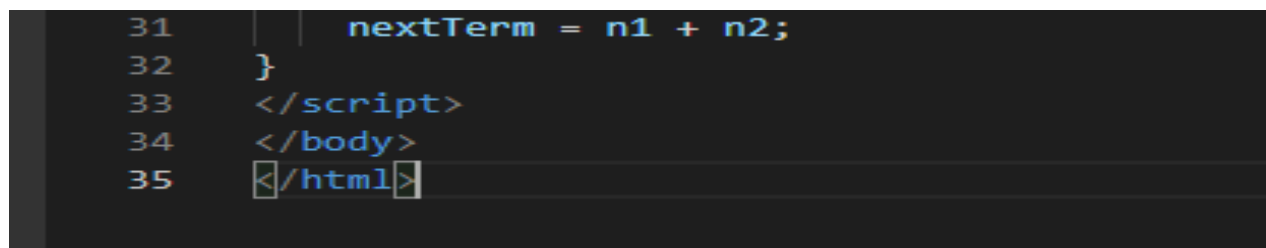
```
1  <body>
2
3      <script>
4          const arr1 = ["a", "b", "c"];
5          const arr2 = [1, 2, 3];
6          let run = 0, first = 0, second = 0;
7          const newArr = [];
8          while(run < arr1.length + arr2.length){
9              if(first > second){
10                 newArr[run] = arr2[second];
11                 second++;
12             }else{
13                 newArr[run] = arr1[first];
14                 first++;
15             }
16             run++;
17         };
18         console.log(newArr);
19     </script>
20
21 </body>
22 </html>
```



```
> (6) [\"a\", 1, \"b\", 2, \"c\", 3]
> |
```



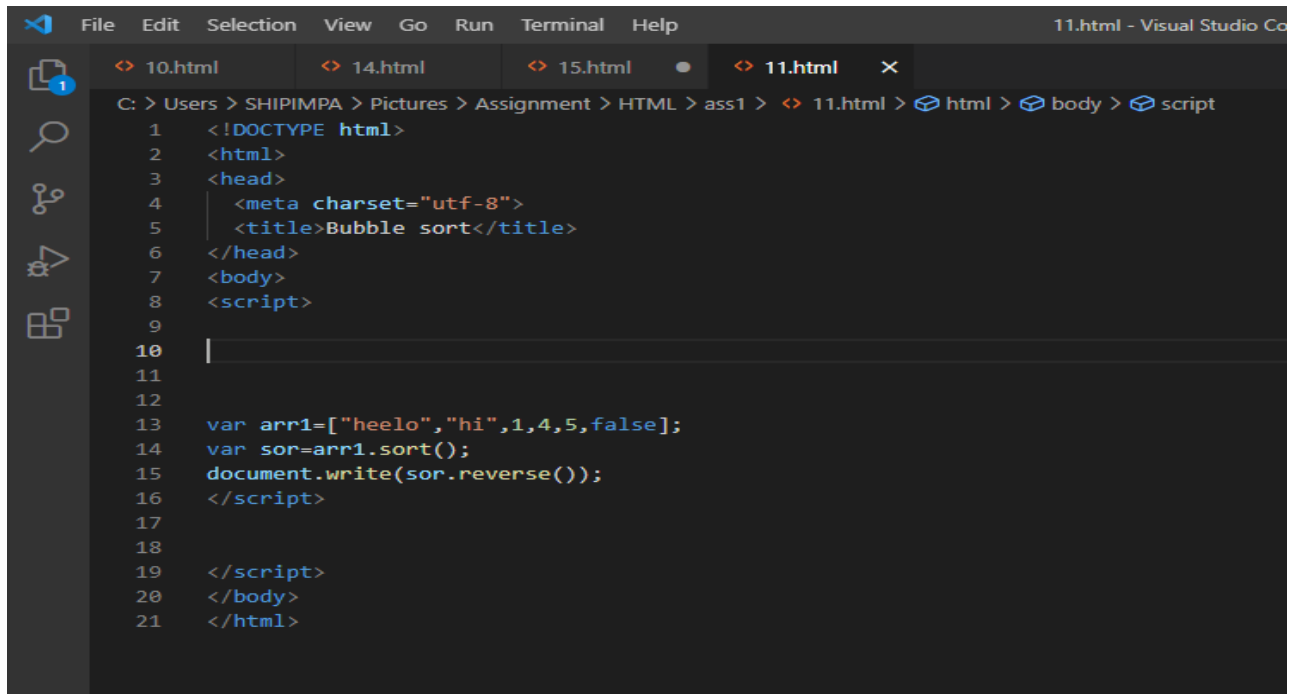
```
10.html x
C: > Users > SHIPIMPA > Pictures > Assignment > HTML > ass1 > 10.html > html
1
2 <!DOCTYPE html>
3 <html>
4 <head>
5   <meta charset="utf-8">
6   <title>fibonacci</title>
7 </head>
8 <body>
9 <script>
10 var number=100;
11 n1=0;
12 n2=1;
13 var nextterm;
14
15 document.write('Fibonacci Series:');
16 document.write("<br>");
17 document.write(n1);
18 document.write("<br>"); // print 0
19 document.write(n2);
20 document.write("<br>"); // print 1
21
22 nextTerm = n1 + n2;
23
24 while (nextTerm <= number) {
25
26   document.write(nextTerm);
27   document.write("<br>");
28   n1 = n2;
29   n2 = nextTerm;
30   nextTerm = n1 + n2;
31 }
32
```



```
31   nextTerm = n1 + n2;
32 }
33 </script>
34 </body>
35 </html>
```

File | C:/Users/SHIPIMPA/Pictures/Assignment/HTML/ass1/10.html

Fibonacci Series:  
0  
1  
1  
2  
3  
5  
8  
13  
21  
34  
55  
89



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8">
5   <title>Bubble sort</title>
6 </head>
7 <body>
8 <script>
9
10
11
12
13 var arr1=["heelo","hi",1,4,5,false];
14 var sor=arr1.sort();
15 document.write(sor.reverse());
16 </script>
17
18
19 </script>
20 </body>
21 </html>
```

← → ↺ ⬆ ⓘ File | C:/Users/SHIPIMPA/Pictures/Assignment/HTML/ass1/11.html

hi,heelo,false,5,4,1

```

13 (2).html X
C: > Users > SHIPIMPA > Pictures > Assignment > HTML > ass1 > 13 (2).html > html > head > title
1
2 <!DOCTYPE html>
3 <html>
4 <head>
5   <meta charset="utf-8">
6   <title>sum of number in array</title>
7 </head>
8 <body>
9   <script>
10    var arr1=[8,9,10,11,12]
11
12    function forloop(value){
13      var sum=0;
14      for(i=0;i<value.length;i++){
15        sum=sum+value[i];
16      }
17      document.write("For loop " +sum);
18    }
19    function whileloop(value){
20      var i=0;
21      var sum=0;
22      while(i<value.length){
23        sum=sum+value[i];
24        i++;
25      }
26      document.write("While Loop "+sum);
27    }
28    function dowhile(value){
29      var i=0;
30      var sum=0;

```

```

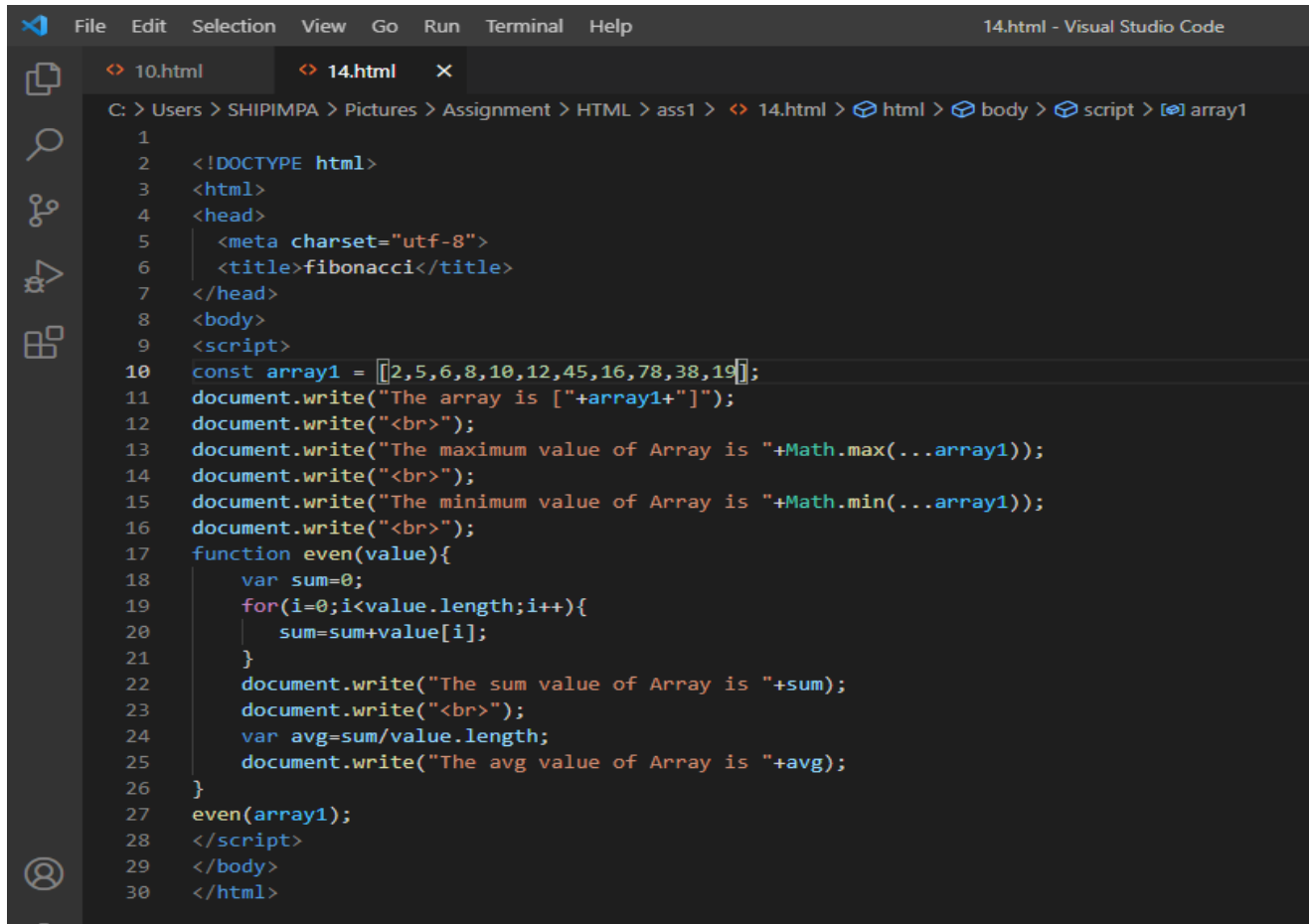
31      do{
32        sum=sum+value[i];
33        i++;
34      }
35      while(i<value.length);
36      document.write("do While Loop "+sum);
37    }
38    forloop(arr1);
39    document.write("<br>");
40    whileloop(arr1);
41    document.write("<br>");
42    dowhile(arr1);
43  </script>
44 </body>
45 </html>

```

← → ↻ 🏠 ⓘ File | C:/Users/SHIPIMPA/Pictures/Assignment/HTML/ass1/6.html

For loop 50  
While Loop 50  
do While Loop 50

14



```
14.html
C: > Users > SHIPIMPA > Pictures > Assignment > HTML > ass1 > 14.html > html > body > script > array1
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <meta charset="utf-8">
5    <title>fibonacci</title>
6  </head>
7  <body>
8  <script>
9    const array1 = [2,5,6,8,10,12,45,16,78,38,19];
10   document.write("The array is ["+array1+"]");
11   document.write("<br>");
12   document.write("The maximum value of Array is "+Math.max(...array1));
13   document.write("<br>");
14   document.write("The minimum value of Array is "+Math.min(...array1));
15   document.write("<br>");
16   function even(value){
17     var sum=0;
18     for(i=0;i<value.length;i++){
19       sum=sum+value[i];
20     }
21     document.write("The sum value of Array is "+sum);
22     document.write("<br>");
23     var avg=sum/value.length;
24     document.write("The avg value of Array is "+avg);
25   }
26   even(array1);
27 </script>
28 </body>
29 </html>
```

← → ↻ 🏠 ⓘ File | C:/Users/SHIPIMPA/Pictures/Assignment/HTML/ass1/14.html

The array is [2,5,6,8,10,12,45,16,78,38,19]  
The maximum value of Array is 78  
The minimum value of Array is 2  
The sum value of Array is 239  
The avg value of Array is 21.727272727272727

```

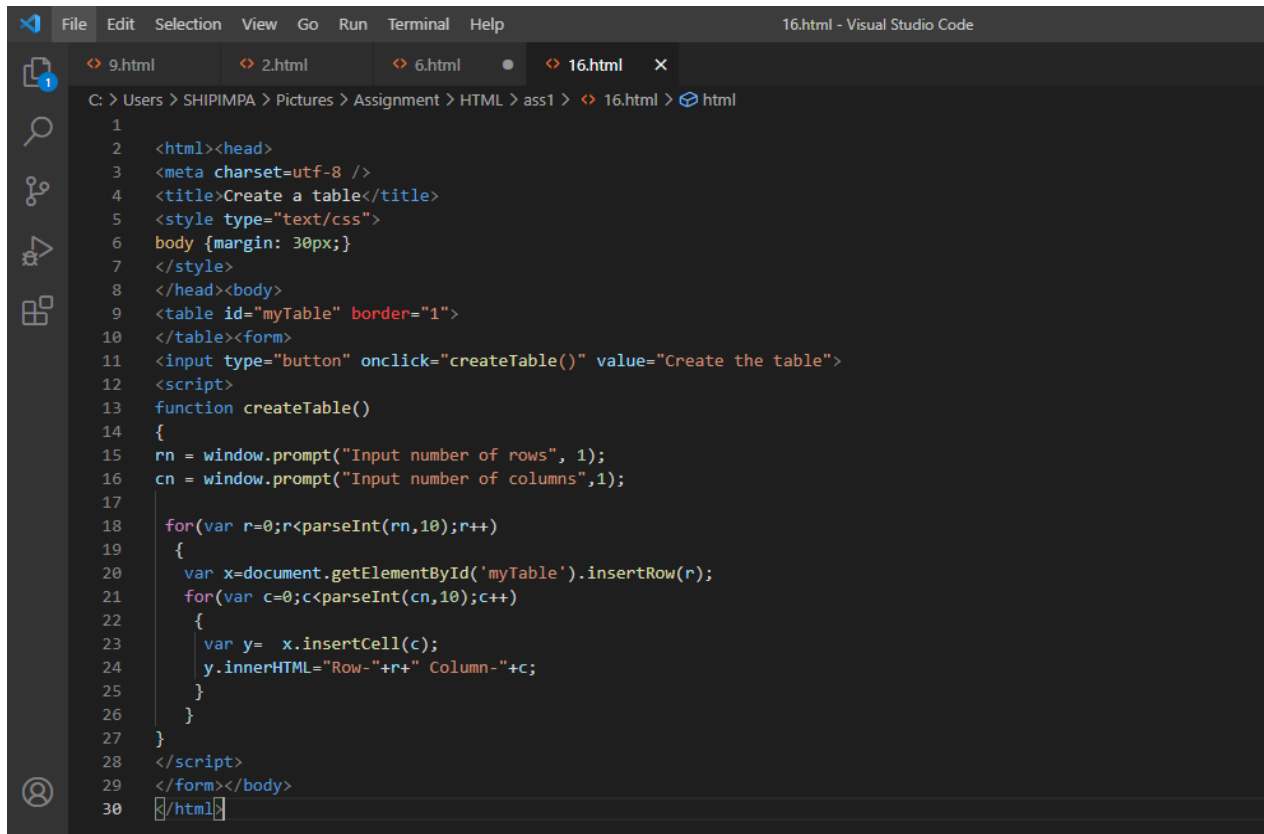
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <meta charset="utf-8">
5      <title>Bubble sort</title>
6  </head>
7  <body>
8  <script>
9
10 // Creating the bblSort function
11 function bblSort(arr){
12
13     for(var i = 0; i < arr.length; i++){
14
15         // Last i elements are already in place
16         for(var j = 0; j < ( arr.length - i -1 ); j++){
17
18             // Checking if the item at present iteration
19             // is greater than the next iteration
20             if(arr[j] > arr[j+1]){
21
22                 // If the condition is true then swap them
23                 var temp = arr[j]
24                 arr[j] = arr[j + 1]
25                 arr[j+1] = temp
26             }
27         }
28     }
29     document.write("Sorted Array using Bubble sort [" +arr+"]");
30 }
31 // This is our unsorted array
32 var arr = [34,1,67,78,45,36,17,23,13,19,10,15,23,16,78,34,29,90,34,54];
33
34     document.write("The array is [" +arr+"]");
35     document.write("<br>");
36     // Now pass this array to the bblSort() function
37     bblSort(arr);
38 </script>
39 </body>

```

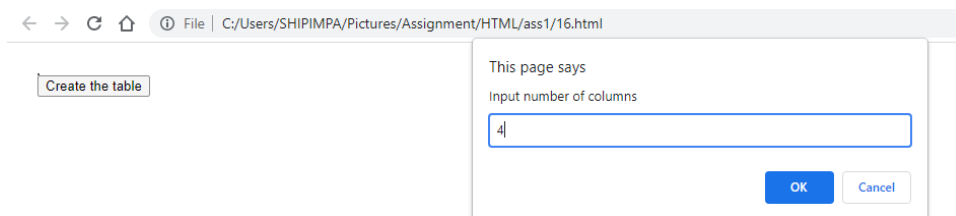
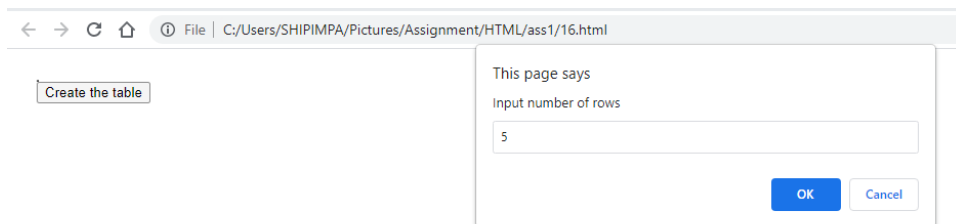
File | C:/Users/SHIPIMPA/Pictures/Assignment/HTML/ass1/15.html

The array is [34,1,67,78,45,36,17,23,13,19,10,15,23,16,78,34,29,90,34,54]

Sorted Array using Bubble sort [1,10,13,15,16,17,19,23,23,29,34,34,34,36,45,54,67,78,78,90]



```
1 <html><head>
2 <meta charset=utf-8 />
3 <title>Create a table</title>
4 <style type="text/css">
5   body {margin: 30px;}
6 </style>
7 </head><body>
8 <table id="myTable" border="1">
9 </table><form>
10 <input type="button" onclick="createTable()" value="Create the table">
11 <script>
12 function createTable()
13 {
14   {
15     rn = window.prompt("Input number of rows", 1);
16     cn = window.prompt("Input number of columns",1);
17     for(var r=0;r<parseInt(rn,10);r++)
18     {
19       var x=document.getElementById('myTable').insertRow(r);
20       for(var c=0;c<parseInt(cn,10);c++)
21       {
22         var y= x.insertCell(c);
23         y.innerHTML="Row-"+r+" Column-"+c;
24       }
25     }
26   }
27 }
28 </script>
29 </form></body>
30 </html>
```





Row-0 Column-0	Row-0 Column-1	Row-0 Column-2	Row-0 Column-3
Row-1 Column-0	Row-1 Column-1	Row-1 Column-2	Row-1 Column-3
Row-2 Column-0	Row-2 Column-1	Row-2 Column-2	Row-2 Column-3
Row-3 Column-0	Row-3 Column-1	Row-3 Column-2	Row-3 Column-3
Row-4 Column-0	Row-4 Column-1	Row-4 Column-2	Row-4 Column-3
Create the table			

17

```

1 <html>
2 <head>
3 <title>rotating k elements</title>
4 <body></body>
5 <script>
6
7     function leftRotate(arr , d , n) {
8         for (i = 0; i < d; i++)
9             leftRotatebyOne(arr, n);
10    }
11
12    function leftRotatebyOne(arr , n) {
13        var i, temp;
14        temp = arr[0];
15        for (i = 0; i < n - 1; i++)
16            arr[i] = arr[i + 1];
17        arr[n - 1] = temp;
18    }
19
20    function printArray(arr , n) {
21        for (i = 0; i < n; i++)
22            document.write(arr[i] + " ");
23    }
24
25    var arr = [ 1, 2, 3, 4, 5, 6, 7 ];
26    leftRotate(arr, 2, 7);
27    printArray(arr, 7);
28
29 </script>
30 </body>
31 </html>

```

3 4 5 6 7 1 2