

- Unshift

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<p>Please you have to Click the button to add elements to the beginning of the array.</p>
```

```
<button onclick="myFunction()">Try it</button>
```

```
<p id="demo"></p>
```

```
<script>
```

```
var fruits = ["Watermelon" , "Apple" , "Grapes" , "Orange"];
document.getElementById("demo").innerHTML = fruits; function myFunction() {
fruits.unshift("Strawberry" , "Mango");
document.getElementById("demo").innerHTML = fruits;
}
```

```
</script>
```

The screenshot shows a Notepad++ window with the following code:

```

1 <!DOCTYPE html>
2 <html>
3 <body>
4 <p>Please you have to Click the button to add elements to the beginning of the array.</p>
5 <button onclick="myFunction()">Try it</button>
6 <p id="demo"></p>
7 <script>
8 var fruits = ["Watermelon" , "Apple" , "Grapes" , "Orange"]; document.getElementById("demo").innerHTML = fruits; function myFunction() {
9 fruits.unshift("Strawberry" , "Mango"); document.getElementById("demo").innerHTML = fruits;
10 }
11 </script>
12
13
14

```

The status bar at the bottom indicates: length: 450 lines: 14 Ln: 4 Col: 90 Sel: 0 | 0 Windows (CR LF) UTF-8 OVR. The taskbar shows the date as 08-04-2021 and time as 14:15.



Please you have to Click the button to add elements to the beginning of the array.

[Try it](#)

Watermelon,Apple,Grapes,Orange



Please you have to Click the button to add elements to the beginning of the array.

[Try it](#)

Strawberry,Mango,Watermelon,Apple,Grapes,Orange



- Delete

Code:

```
<!DOCTYPE html>

<html>

<body>

<h2>JavaScript </h2>

<p>You can delete object properties with the delete keyword.</p>

<p id="demo"></p>

<script>

var person = {

    firstname: "Rahul ",

    lastname: "Patil ",

    age: 9,

    eyecolor: "black "

};

delete person.firstname;

document.getElementById("demo").innerHTML =

person.firstname + " is " + person.age + " years old.";

</script>

</body>

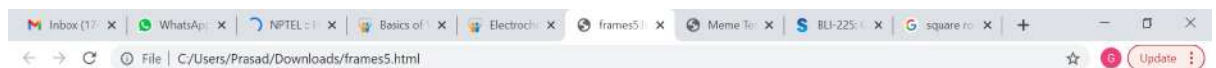
</html>
```

```

1 <!DOCTYPE html>
2 <html>
3 <body>
4 <h2>JavaScript </h2>
5 <p>You can delete object properties with the delete keyword.</p>
6 <p id="demo"></p>
7 <script>
8 var person = {
9   firstname: "Rahul ",
10  lastname: "Patil ",
11  age: 9,
12  eyecolor: "black "
13 };
14 delete person.firstname;
15 document.getElementById("demo").innerHTML =
16 person.firstname + " is " + person.age + " years old.";
17 </script>
18 </body>
19 </html>
20

```

Hyper Text Markup Language file      length : 407   lines : 20      Ln : 20   Col : 1   Sel : 0 | 0      Windows (CR LF)   UTF-8   OVR



## JavaScript

You can delete object properties with the delete keyword.

undefined is 9 years old.



- Splice

```
<!DOCTYPE html>
```

<html>

<body>

Click the button to add elements to the array.

`<button onclick="myFunction()">Try it</button>`

<p id="demo"></p>

<script>

```
var fruits = ["Watermelon" , "Apple" , "Grapes" , "Orange"];
```

```
document.getElementById("demo").innerHTML = fruits; function myFunction() {
```

```
fruits.splice(2, 0, "Strawberry , Sitafal");
```

```
document.getElementById("demo").innerHTML = fruits;
```

$$\}$$

&lt;/script&gt;

&lt;/body&gt;

C:\Users\Prasad\Downloads\frames5.html - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

frames5.html

```

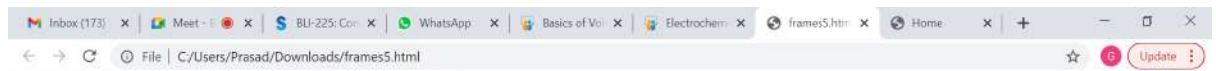
1 <!DOCTYPE html>
2 <html>
3 <body>
4 <p>Click the button to add elements to the array.</p>
5 <button onclick="myFunction()" >Try it</button>
6 <p id="demo"></p>
7 <script>
8
9
10 var fruits = ["Watermelon", "Apple", "Grapes", "Orange"]; document.getElementById("demo").innerHTML = fruits; function myFunction() {
11 fruits.splice(2, 0, "Strawberry", Sitafal);
12 document.getElementById("demo").innerHTML = fruits;
13 }
14 </script>
15 </body>
16 </html>
17
18
19

```

Hyper Text Markup Language file

length: 444 lines: 19 Ln: 19 Col: 1 Sel: 0 | 0 Windows (CR LF) UTF-8

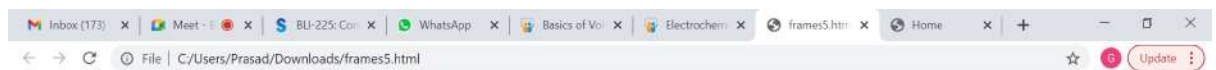
14:47 08-04-2021



Click the button to add elements to the array.

[Try it](#)

Watermelon,Apple,Grapes,Orange



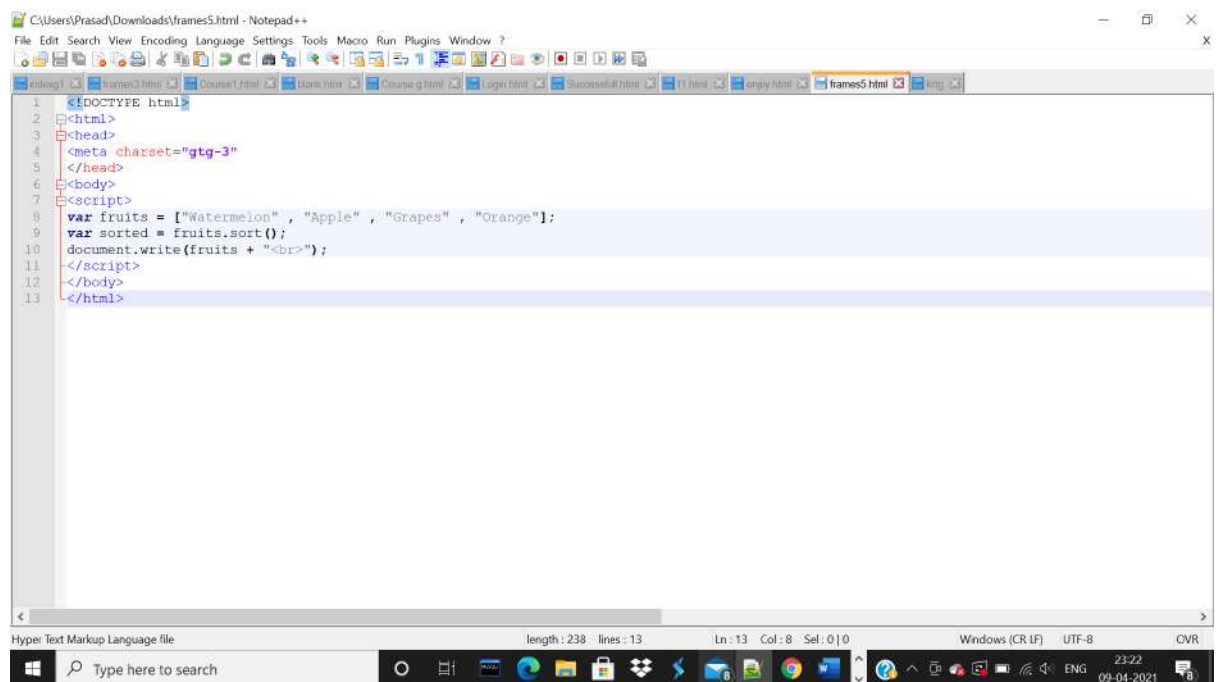
Click the button to add elements to the array.

[Try it](#)

Watermelon,Apple,Strawberry , Sitafal,Grapes,Orange

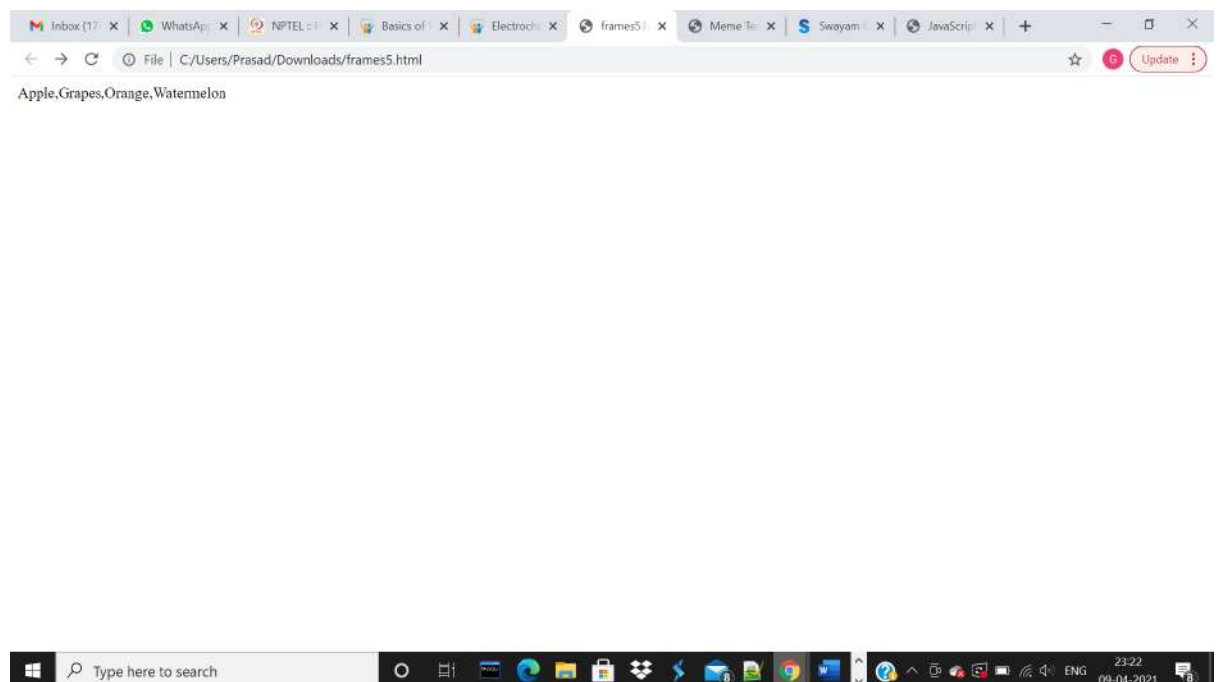


- Sort



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="gtg-3"
5 </head>
6 <body>
7 <script>
8 var fruits = ["Watermelon", "Apple", "Grapes", "Orange"];
9 var sorted = fruits.sort();
10 document.write(fruits + "<br>");
11 </script>
12 </body>
13 </html>
```

Hyper Text Markup Language file length: 238 lines: 13 Ln: 13 Col: 8 Sel: 0 | 0 Windows (CR LF) UTF-8 OVR



## 3. Create a webpage demonstrating different mathematical expressions in JavaScript:

- math.log

```
<html>
```

```
<head>
```

```
<title>JavaScript</title>
```

```
</head>
```

```
<body>
```

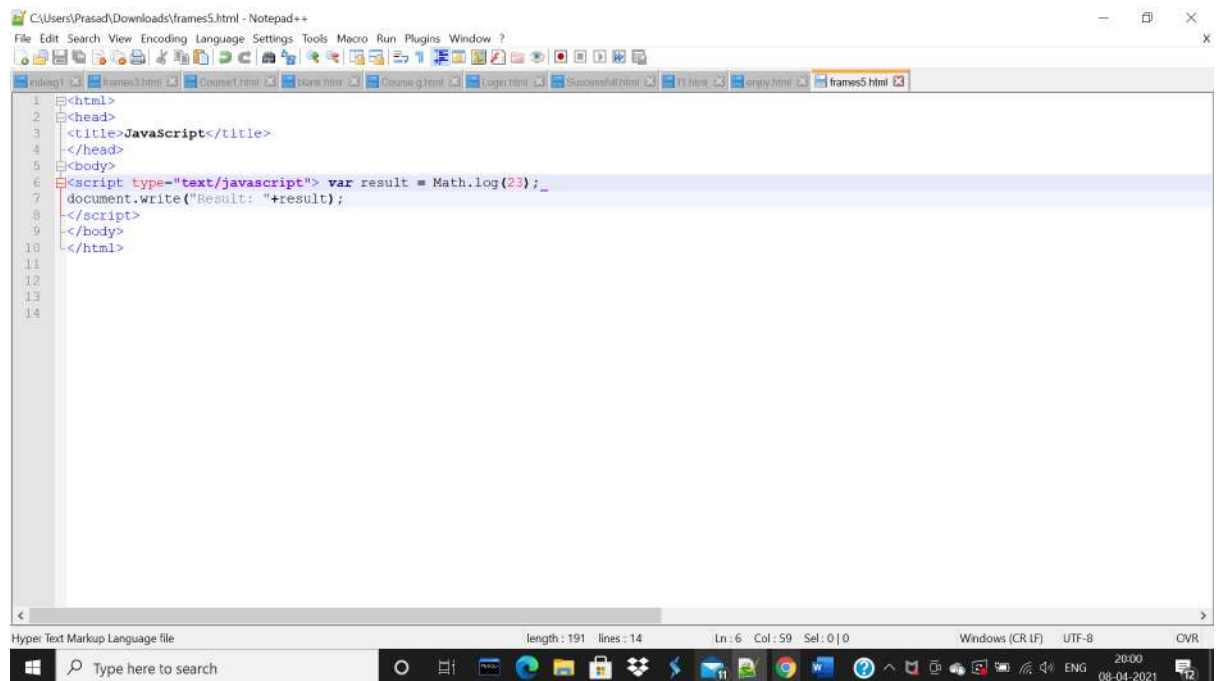
```
<script type="text/javascript"> var result = Math.log(23);
```

```
document.write("Result: "+result);
```

```
</script>
```

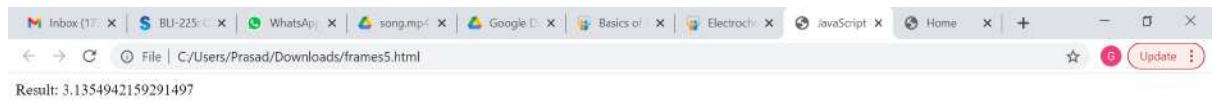
```
</body>
```

```
</html>
```





Date: 10/4/21



- math.max

<html>

<head>

<title>JavaScript Example</title>

</head>

<body>

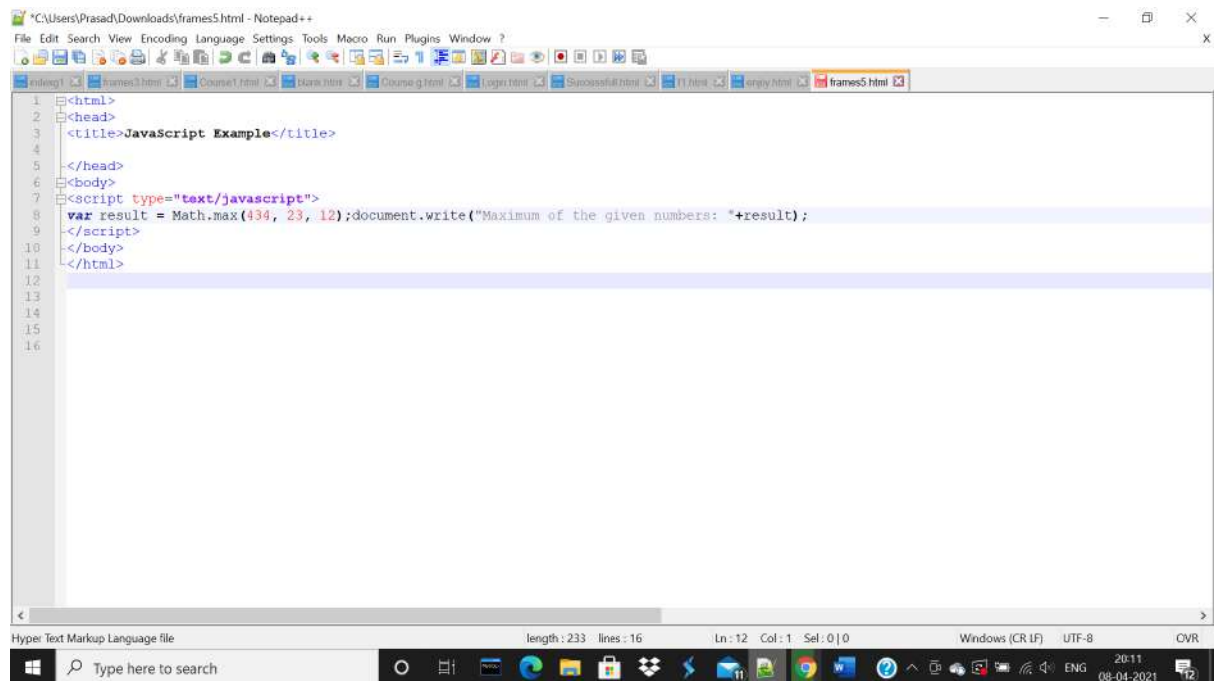
<script type="text/javascript">

```
var result = Math.max(434, 23, 12);document.write("Maximum of the given numbers: "+result);
```

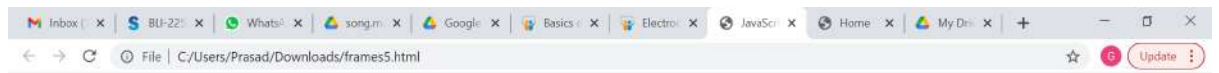
</script>

</body>

</html>



Date: 10/4/21



Maximum of the given numbers: 434



- math.min

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<p>Click the button to return the lowest number of 76 and 89 </p>
```

```
<button onclick="myFunction()">Try it</button>
```

```
<p id="demo"></p>
```

```
<script>
```

```
function myFunction() { document.getElementById("demo").innerHTML =  
Math.min(76 , 89);
```

```
}
```

```
</script>
```

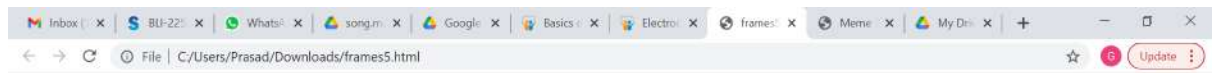
```
</body>
```

```
</html>
```

```

1 <!DOCTYPE html>
2 <html>
3 <body>
4 <p>Click the button to return the lowest number of 76 and 89 </p>
5 <button onclick="myFunction()">Try it</button>
6 <p id="demo"></p>
7 <script>
8 function myFunction() { document.getElementById("demo").innerHTML = Math.min(76 , 89);
9 }
10 </script>
11 </body>
12 </html>
13
14
15
16

```



Click the button to return the lowest number of 76 and 89

76



- math.sqrt

Code:

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<p>Click the button to display the square root of 25.</p>
```

```
<button onclick="myFunction()">Access it </button>
```

```
<p id="demo"></p>
```

```
<script>
```

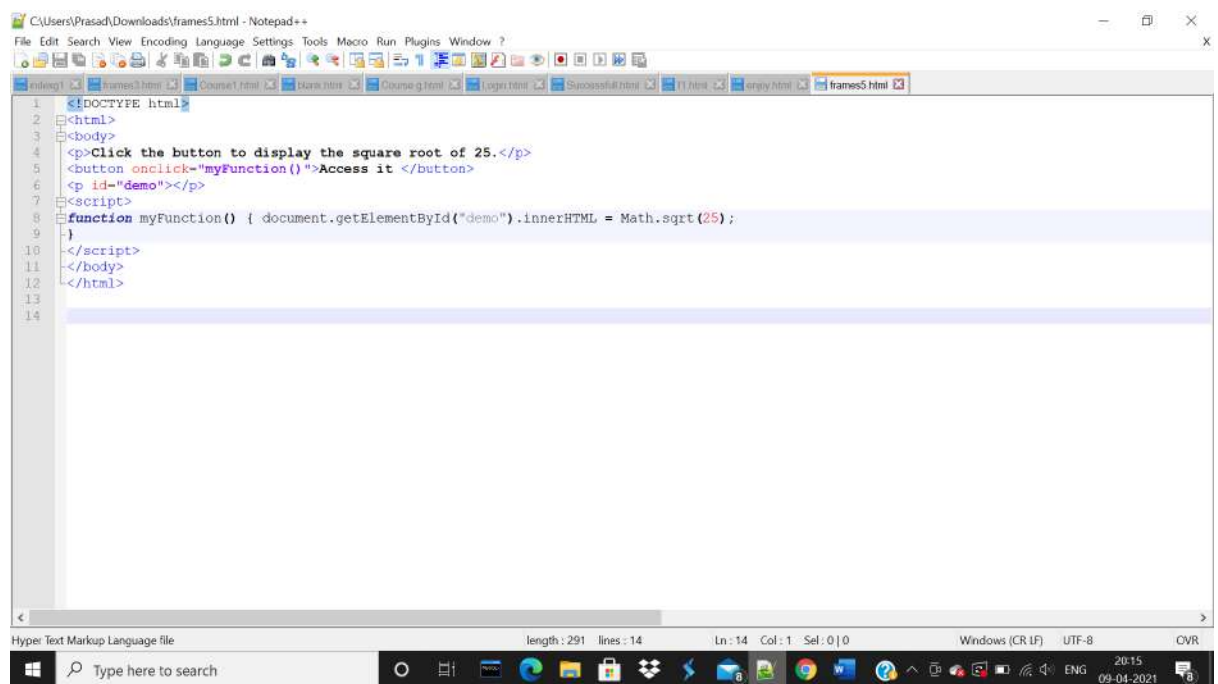
```
function myFunction() { document.getElementById("demo").innerHTML =  
Math.sqrt(25);
```

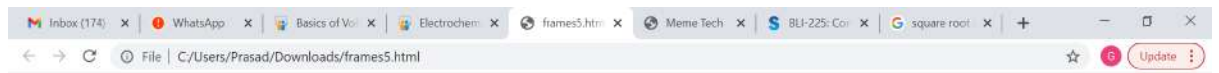
```
}
```

```
</script>
```

```
</body>
```

```
</html>
```





Click the button to display the square root of 25.

Access it

5



## 16. Working with strings and methods in java Script

## 1. Create a page demostrating various string methods:

- lastIndexOf

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<p>Click the button to locate the last occurrence of a specified value.</p>
```

```
<button onclick="myFunction()">Try it</button>
```

```
<p id="demo"></p>
```

```
<script>
```

```
function myFunction() {
```

```
var str = "Hello This Is Java"; var n = str.lastIndexOf("Java");
```

```
document.getElementById("demo").innerHTML = n;
```

```
}
```

```
</script>
```

```
</body>
```

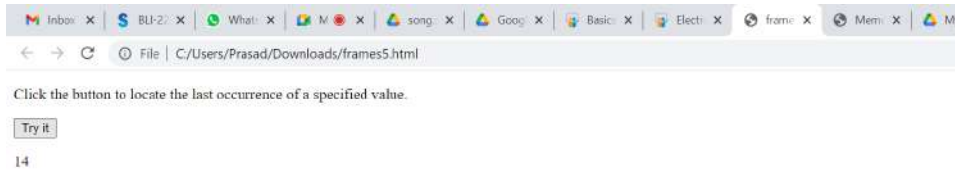
```
</html>
```

```

1  <!DOCTYPE html>
2  <html>
3  <body>
4  <p>Click the button to locate the last occurrence of a specified value.</p>
5  <button onclick="myFunction()">Try it</button>
6  <p id="demo"></p>
7  <script>
8  function myFunction() {
9      var str = "Hello This Is Java"; var n = str.lastIndexOf("Java"); document.getElementById("demo").innerHTML = n;
10 }
11 </script>
12 </body>
13 </html>
14
15
16
17
18
19
20

```





- Slice

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<p>You will have to Click the button to display the extracted part of the string.</p>
```

```
<button onclick="myFunction()">Try it</button>
```

```
<p id="demo"></p>
```

```
<script>
```

```
function myFunction() { var str = "Hello Java "; var res = str.slice(0 , 1);
```

```
document.getElementById("demo").innerHTML = res;
```

```
}
```

```
</script>
```

```
</body>
```

```
</html>
```

