

Assignment: 02

1. Write a JavaScript function to check whether an `input` is a string or not. Test Data :
'Graphic era University'

true

[1, 2, 4, 0]

False

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Check String</title>
</head>
<body>
  <h2>Check if Input is a String</h2>
  <input type="text" id="input" placeholder="Enter something">
  <button onclick="checkInput()">Check</button>
  <p id="result"></p>

  <script>
    function isString(value) {
      return /^[a-zA-Z\s]+$/.test(value);
    }
    function checkInput() {
      let input = document.getElementById("input").value;
      let result = isString(input);
      document.getElementById("result").innerText = result;
    }
  </script>
</body>
</html>
```

</script>

</body>

</html>

Output:

Check if Input is a String

true

Check if Input is a String

false

2. Write a JavaScript function to check whether a string is blank or not.

Test Data :

(is_Blank("));

(is_Blank('abc'));

True

false

Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Check Blank String</title>

</head>

<body>

  <h2>Check if String is Blank</h2>

  <input type="text" id="input" placeholder="Enter something">

  <button onclick="checkInput()">Check</button>

  <p id="result"></p>

  <script>

    function is_Blank(value) {

      return value.trim() === "";

    }

    function checkInput() {

      let input = document.getElementById("input").value;

      let result = is_Blank(input);

      document.getElementById("result").innerText = result;

    }

  </script>

</body>

</html>
```

Output:

Check if String is Blank

true

Check if String is Blank

false

3. Write a JavaScript function to split a string and convert it into an array of words. Test Data :
- ```
(string_to_array("Robin Singh"));
["Robin", "Singh"]
```

**Code:**

```
<!DOCTYPE html>

<html lang="en">

<head>

 <meta charset="UTF-8">

 <meta name="viewport" content="width=device-width, initial-scale=1.0">

 <title>String to Array</title>

</head>

<body>

 <h2>Convert String to Array</h2>

 <input type="text" id="input">

 <button onclick="convertToArray()">Convert</button>

 <p id="result"></p>

 <script>

 function convertToArray() {

 let input = document.getElementById("input").value;

 document.getElementById("result").innerText = input.split(" ");

 }

 </script>

</body>

</html>
```

**Output:**

## Convert String to Array

Arpit,Kumar,Chauhan

4. Write a JavaScript function to remove specified number of characters from a string.  
Test Data :  
(truncate\_string("Robin Singh",4));  
"Robi"

**Code:**

```
<!DOCTYPE html>

<html lang="en">

<head>

 <meta charset="UTF-8">

 <meta name="viewport" content="width=device-width, initial-scale=1.0">

 <title>Truncate String</title>

</head>

<body>

 <h2>Truncate String</h2>

 <input type="text" id="input" placeholder="Enter text">

 <input type="number" id="num" placeholder="Enter length">

 <button onclick="truncateString()">Truncate</button>

 <p id="result"></p>

 <script>

 function truncateString() {

 let input = document.getElementById("input").value;

 let num = parseInt(document.getElementById("num").value);

 document.getElementById("result").innerText = input.substring(0, num);

 }

 </script>

</body>

</html>
```

**Output:**

## Truncate String

Arp



5. Write a JavaScript function to convert a string in abbreviated form.

Test Data : (abbrev\_name("Robin Singh"));

"Robin S."

**Code:**

```
<!DOCTYPE html>

<html lang="en">

<head>

 <meta charset="UTF-8">

 <title>Abbreviate Name</title>

</head>

<body>

 <h2>Abbreviate Name</h2>

 <input type="text" id="nameInput" placeholder="Enter full name">

 <button onclick="abbreviate()">Abbreviate</button>

 <p>Result: </p>

 <script>

 function abbreviate() {

 var fullName = document.getElementById('nameInput').value.trim();

 var nameArray = fullName.split(' ');

 if (nameArray.length === 2) {

 var firstName = nameArray[0];

 var lastNameInitial = nameArray[1].charAt(0).toUpperCase() + '.';

 document.getElementById('result').textContent = firstName + ' ' + lastNameInitial;

 } else {

 document.getElementById('result').textContent = 'Please enter exactly two words.';

 }

 }

 </script>

</body>

</html>
```

**Output:**

## Abbreviate Name

Result: Arpit K.

6. Write a JavaScript function to hide email addresses to protect from unauthorized user.

Test Data : (protect\_email("robin\_singh@example.com"));  
"robin...@example.com"

**Code:**

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>Email Masking</title>
</head>
<body>
 <h2>Email Masking</h2>
 <label for="emailInput">Enter Email Address:</label>
 <input type="email" id="emailInput" placeholder="example@example.com">
 <button onclick="maskEmail()">Mask Email</button>
 <p>Masked Email: </p>

 <script>
 function maskEmail() {
 var email = document.getElementById('emailInput').value;
 var atIndex = email.indexOf('@');

 if (atIndex > 0) {
 var localPart = email.substring(0, atIndex);
 var domainPart = email.substring(atIndex);
 var maskedLocalPart;

 if (localPart.length > 2) {
 maskedLocalPart = localPart[0] + '...' + localPart[localPart.length - 1];
 } else {
 maskedLocalPart = localPart[0] + '...';
 }

 var maskedEmail = maskedLocalPart + domainPart;
 document.getElementById('maskedEmail').textContent = maskedEmail;
 } else {
 document.getElementById('maskedEmail').textContent = 'Invalid email address';
 }
 }
 </script>
```

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

**Output:**

## Email Masking

Enter Email Address:

Masked Email: k...t@gmail.com

7. Write a JavaScript function to parameterize a string.  
Test Data : (string\_parameterize("Robin Singh from INDIA.));  
"robin-singh-from-india"

**Code:**

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>String Parameterizer</title>
</head>
<body>
 <h2>Parameterize a String</h2>
 <input type="text" id="textInput" placeholder="Enter text">
 <button onclick="parameterizeString()">Convert</button>
 <p>Result: </p>

 <script>
 function parameterizeString() {
 let text = document.getElementById('textInput').value;
 let result = text.toLowerCase().trim().replaceAll(' ', '-');
 document.getElementById('result').textContent = result;
 }
 </script>
</body>
</html>
```

**Output:**

## Parameterize a String

Robin Singh from INDIA.

Result: robin-singh-from-india.

8. Write a JavaScript function to capitalize the first letter of a string. Test Data :  
(capitalize('js string exercises'));  
"Js string exercises"

**Code:**

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>Capitalize First Letter</title>
</head>
<body>
 <h2>Capitalize First Letter</h2>
 <input type="text" id="textInput" placeholder="Enter text">
 <button onclick="capitalizeFirstLetter()">Capitalize</button>
 <p>Result: </p>

 <script>
 function capitalizeFirstLetter() {
 let text = document.getElementById('textInput').value;
 let result = text.charAt(0).toUpperCase() + text.slice(1);
 document.getElementById('result').textContent = result;
 }
 </script>
</body>
</html>
```

**Output:**

## Capitalize First Letter

Result: Arpit kumar

9. Write a JavaScript function to capitalize the first letter of each word in a string. Test Data : (capitalize\_Words('js string exercises'));  
"Js String Exercises"

**Code:**

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>Capitalize Each Word</title>
</head>
<body>
 <h2>Capitalize Each Word</h2>
 <input type="text" id="textInput" placeholder="Enter text">
 <button onclick="capitalizeWords()">Capitalize</button>
 <p>Result: </p>

 <script>
 function capitalizeWords() {
 let text = document.getElementById('textInput').value;
 let result = text.split(' ').map(word => word.charAt(0).toUpperCase() +
word.slice(1)).join(' ');
 document.getElementById('result').textContent = result;
 }
 </script>
</body>
</html>
```

**Output:**

## Capitalize Each Word

arpit kumar chauhan Capitalize

Result: Arpit Kumar Chauhan

10. Write a JavaScript function that takes a string which has lower and upper case letters as a parameter and converts upper case letters to lower case, and lower case letters to upper case.

Test Data : (swapcase('AaBbc'));  
"aAbBC"

**Code:**

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>Swap Case</title>
</head>
<body>
 <h2>Swap Case</h2>
 <input type="text" id="textInput" placeholder="Enter text">
 <button onclick="swapCase()">Swap Case</button>
 <p>Result: </p>

 <script>
 function swapCase() {
 let text = document.getElementById('textInput').value;
 let result = text.split("").map(char =>
 char === char.toUpperCase() ? char.toLowerCase() : char.toUpperCase()
).join("");
 document.getElementById('result').textContent = result;
 }
 </script>
</body>
</html>
```

**Output:**

## Swap Case

Result: aRPIT kUMAR cHAUHAN