**String Assignment -1**

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

**Solution:**

function isString(value)

{

return typeof value==='string'||value instanceof String;

}

console.log(isString("Graphic era University"));

console.log(isString([1,2,4,0]));

1. Write a JavaScript function to check whether a string is blank or not.  *Test Data* :  
   (is\_Blank(''));   
   (is\_Blank('abc'));  
   true   
   false

**Solution:**

function isBlank(value)

{

value=value.trim();

if(value.length===0)

{

console.log(true);

}

else

{

console.log(false);

}

}

isBlank("");

isBlank('abc');

**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"]

**Solution:**

function string\_to\_array(value)

{

arr = value.split(" ");

console.log(arr);

}

string\_to\_array("Robin Singh");

**4.**Write a JavaScript function to remove specified number of characters from a string.

*Test Data* :  
(truncate\_string("Robin Singh",4));  
"Robi"

**Solution:**

function truncate\_string(value,pos)

{

sub = value.slice(0,pos);

console.log(sub);

}

truncate\_string("Robin Singh",4);

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

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

**Solution:**

function abbrev\_name(value)

{

let arr=value.trim().split(" ");

sub=arr[0];

for(i=1; i<arr.length; i++)

{

sub+=" ";

sub+=arr[i].charAt(0);

sub+="."

}

sub = sub.trim();

console.log(sub);

}

abbrev\_name("Robin Singh Chaturvedi");

**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](mailto:robin...@example.com)

**Solution:**

function protectEmail(value)

{

let arr = value.split("@");

let part1, part2;

part1 = arr[0];

part1 = part1.slice(0,part1.length/2);

part2 = arr[1];

sub = part1 + "...@" + part2;

console.log(sub);

}

protectEmail("robin\_singh@example.com");

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

**Solution:**

function string\_parameterize(value)

{

value = value.replace(".","");

let arr = value.trim().toLowerCase().split(" ");

let sub="";

for(let i=0; i<arr.length; i++)

{

sub+=arr[i]+"-";

}

sub = sub.slice(0,-1);

console.log(sub);

}

string\_parameterize("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"

**Solution:**

function capitalize(value)

{

value=value.charAt(0).toUpperCase()+value.slice(1);

console.log(value);

}

capitalize("js string exercises");

**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"

**Solution:**

function capitalize\_Words(value)

{

let arr = value.trim().split(" ");

let sub="";

for(let i=0; i<arr.length; i++)

{

sub+=arr[i].charAt(0).toUpperCase()+arr[i].slice(1);

sub+=" ";

}

sub = sub.trim();

console.log(sub);

}

capitalize\_Words("js string exercises");

**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"

**Solution:**

function swapcase(value)

{

arr = value.split("");

for(let i=0; i<arr.length; i++)

{

if(arr[i]==arr[i].toUpperCase())

{

arr[i]=arr[i].toLowerCase();

}

else if(arr[i]==arr[i].toLowerCase())

{

arr[i]=arr[i].toUpperCase();

}

}

let sub = arr.join("");

console.log(sub);

}

swapcase('AaBbc');