

Mohan Sai Potla

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JavaScript Assignment 7

1. Input a String S, and check its length and if the length is greater than 4, truncate the input String and output the result -

Input: Ice Output: Ice

Input:Icecream Output:Icec...

//Program to take string input and truncate it if length is greater than 4

```
function truncStr(str){
    let len = str.length;

    if(len >4){
        return str.substring(0,4);
    }
    return str;
}
```

//driver code

```
let str= prompt('Enter your string');
```

```
let result = truncStr(str);
console.log(result);
```

2. Input a String S with multiple words, and remove whitespaces and output the result -

Input: "Hii Boy" Output: "HiiBoy"

//Program to take string input and remove Whitespaces

```
function removeWhiteSpaces(str){

    return str.split(' ').join('');

}
```

//driver code

```
let str= prompt('Enter your string');
```

```
let result = removeWhiteSpaces(str);
console.log(result);
```

3. Input a String S with two words, and replace first word with second word and display the result -

Input: "Hii Boy" Output: "Boy Hii"

//Program to Input a String S with two words, and replace first word with second word

```
function replaceStrings(str){
```

```
    let arr= str.split(' ');
    return arr[1]+' '+arr[0];
```

```
}
```

//driver code

```
//let str= "mohan sai";
```

```
let str= prompt('Enter your string');
```

```
let result = replaceStrings(str);
console.log(result);
```

4. Input a String S with a word, and replace character "a" with "x" and display the result -

Input: "apple" Output: "xpple"

//Program to Input a String S with a word, and replace character "a" with "x"

```
function replaceChar(str){
```

```
    return str.replace('a','x');
```

```
}
```

//driver code

```
let str= "apple";
```

```
//let str= prompt('Enter your string');
```

```
let result = replaceChar(str);
console.log(result);
```

5. What string method can be used to convert string into array ?

```
let str= "apple";
```

```
let arr = str.split();
```

```
console.log(arr);
```

split() - string method is used to convert string into array.

split('') - string method is used to convert string into array of characters.

6. What string method can be used to check the occurrence of a specified text in a string?

```
let str= "apple is the best fruit in the entire world";  
let arr = str.includes('best');  
console.log(arr);
```

includes() - string method is used to check the occurrences. It returns true.
indexOf('best') - string method gives index of the word in the string.

7. How can you break a string to a newline in Javascript ?

\n - can be used to break a string to a newline.

String literals (``) i.e., (backticks) can preserve the spaces and newlines in the string.

```
console.log(  
`I am currently  
Studying  
Full stack Blockchain`);
```

8. Write a Javascript function to test whether the first character of a string is lowercase.

//Javascript function to test whether the first character of a string is lowercase

```
function isfirstCharLower(str){  
    return str.charAt(0) === str.charAt(0).toUpperCase();  
}
```

//driver code

```
let str= "I am learning full stack blockchain development in iNeuron";  
console.log(isfirstCharLower(str));
```

9. Give a correct verdict to users input if he enters "yes", "YES", "Yes", etc (any combination) using string methods.
How will you handle that ?

We can use regex expressions to match those different type of Yes words.

For Example:

```
function isfirstCharLower(str){  
    let testRegex= /^[Y][E][S]$/i;  
    return testRegex.test(str);  
}  
  
//driver code  
  
let str= "YEs"  
console.log(isfirstCharLower(str));
```

10. Given a String S, achieve following tasks

- a) Convert the String into upper case.
- b) Convert only the first character to uppercase.
- c) Convert the String into lower case.
- d) Break the string into two halves and swap them.
- e) Count the repeating characters.
- f) Reverse the string

```
let str = "i love iNeuron";
```

```
//Convert the String into upper case.
```

```
console.log( str.toUpperCase() );
```

```
//Convert only the first character to uppercase.
```

```
let result = str.charAt(0).toUpperCase()+ str.slice(1);  
console.log( result );
```

```
// Convert the String into lower case.
```

```
console.log( str.toLowerCase() );
```

// Break the string into two halves and swap them.

```
let sub1 = str.substring(0,str.length/2);  
let sub2 = str.substring(str.length/2, str.length);  
console.log(sub2.concat(sub1));
```

// Count the repeating characters.

```
var obj={};  
str = str.toLowerCase();  
for(let char of str) {  
    obj[char] = (isNaN(obj[char])) ? 1 : obj[char] + 1;  
}  
console.log(obj)
```

// Reverse the string

```
console.log( str.split('').reverse().join('') );
```