**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...

const prompt = require("prompt-sync")({sigint : true});

var S = prompt("Enter a string : ");

var truc = S.slice(0,4);

if (S.length > 4 ) {

    console.log(`Output :  ${truc}...`);

} else {

    console.log(`Output :  ${truc}`);

}

**OUTPUT:**

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node assign\_7.js

Enter a string : ice

Output : ice

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node assign\_7.js

Enter a string : icecream

Output : icec...

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2. Input a String S with multiple words, and remove whitespaces and

output the result -

Input: “Hii Boy” Output: “HiiBoy”

const prompt = require("prompt-sync")({sigint: true});

var S = prompt("Enter a string : ");

var whitespaceRemove = S.replace(/ /g, "");

console.log(`Output: ${whitespaceRemove}`);

**OUTPUT:**

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node assign\_7.js

Enter a string : HEY, HOW ARE YOU ?

Output: HEY,HOWAREYOU?

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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”

const prompt = require("prompt-sync")({sigint: true});

var S = prompt("Enter a string : ");

var firstWord = S.split(" ");

var temp = firstWord[0];

firstWord[0] = firstWord[1];

firstWord[1] = temp;

console.log(firstWord.join(" "));

**OUTPUT:**

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node assign\_7.js

Enter a string : Hii Boy

Boy Hii

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4. Input a String S with a word, and replace character “a” with “x” and

display the result -

Input: “apple” Output: “xpple”

const prompt = require("prompt-sync")({sigint: true});

var S = prompt("Enter a string : ");

var replacedLetter = S.replace('a', 'x');

console.log(replacedLetter);

**OUTPUT:**

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node assign\_7.js

Enter a string : apple

xpple

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

split() method

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

search(‘<text to search>’)

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

var str = 'Content from line1 \n Content from line2';

var lines = str.split(/\r?\n/);

console.log(lines);

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node assign\_7.js

[ 'Content from line1 ', ' Content from line2' ]

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

function isLowerCheck(S) {

    var firstChar = S.charAt(0);

    var isNum = firstChar.match(/\d/);

    var isUpper = firstChar.match(/[A-Z]/);

    var isLower = firstChar.match(/[a-z]/);

    console.log(`IsNum : ${isNum} isUpper: ${isUpper}`);

    if (firstChar == isNum ) {

        console.log("First character '${firstChar}' is Digit");

    }

    else if (firstChar == isUpper ) {

        console.log("First character  '${firstChar}'is uppercase");

    }

    else if (firstChar == isLower){

        console.log("First character '${firstChar}' is lowercase");

    }

    else {

        console.log("First character '${firstChar}' is special character");

    }

}

isLowerCheck(S);

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node assign\_7.js

Enter a string : Hello preety

IsNum : null isUpper: H

First character '${firstChar}'is uppercase

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node assign\_7.js

Enter a string : hello preety

IsNum : null isUpper: null

First character '${firstChar}' is lowercase

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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 ?

const prompt = require('prompt-sync')({sigint: true});

var S = prompt("Enter a string : ");

var res = S.match(/yes/gi);

console.log(res);

Output:

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node assign\_7.js

Enter a string : yes Yes YES

[ 'yes', 'Yes', 'YES' ]

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10. Given a String S, achieve following tasks

**Common Input for all task:**

const prompt = require('prompt-sync')({sigint: true});

var S = prompt("Enter a string : ");

1. Convert the String into upper case.

var capital = S.toUpperCase();

console.log(`the String into upper case ${capital}`);

b) Convert only the first character to uppercase.

var firstChar = S.charAt();

var upperFirstChar = firstChar.toUpperCase();

console.log(`first character to uppercase ${upperFirstChar}`);

c) Convert the String into lower case.

var lower = S.toLowerCase();

console.log(`String into lowercase ${lower}`);

d) Break the string into two halves and swap them.

var len = S.length;

console.log(len);

var firstHalf = S.slice(0, len/2);

var secondHalf = S.slice(len/2, len);

var newString = secondHalf + firstHalf;

console.log(`firstHalf of String '${S}' is '${firstHalf}', Second half of String is '${secondHalf}'`);

console.log(`Newly generated after swap : ${newString}`);

**OUTPUT:**

PS C:\Users\ADMIN\Documents\c\JS\_CODE> node upperlower.js

Enter a string : BLOCKCHAIN CRYPTO

17

firstHalf of String 'BLOCKCHAIN CRYPTO' is 'BLOCKCHA', Second half of String is 'IN CRYPTO'

Newly generated after swap : IN CRYPTOBLOCKCHA

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e) Count the repeating characters.

f) Reverse the string

function reverseString(S) {

    var arr = S.split('');

    console.log(arr);

    var rev = arr.reverse();

    console.log(rev);

    var revStr = rev.join('');

    console.log(revStr);

}

reverseString(S);