CODING PROBLEMS

1. **Counting duplicate characters: Write a program that counts duplicate characters from a given string.**

let arr = [1, 2, 3, 4, 5, 5, 5, 4, 2, 1];

function removeDuplicate(arr) {

return [...new Set(arr)];

}

console.log(removeaDuplicate(array))

1. Finding the first non-repeated character: Write a program that returns the first non-repeated character from a given string.

Let firstuniqechar(char\*){

Let n=strlen(str);

Let count [26]={0};

For i=0; i<n; i++){

Count[str[i]-‘a’]==;

}

For (i=0; i<n; i==){

If (count[str[i]-‘a’]==1)

}

Return I;

}

1. Reversing letters and words: Write a program that reverses the letters of each word and a program that reverses the letters of each word and the words themselves.

let a ="string"

let b =a.split("").reverse().join("")

console.log(b)

1. Checking whether a string contains only digits: Write a program that checks whether the given string contains only digits.

let string=("1999")

function onlyDigits(s) {

for (let i = s.length - 1; i >= 0; i--) {

const d = s.charCodeAt(i);

if (d < 48 || d > 57) return false

}

return true

}

console.log(onlyDigits(string));

1. Counting vowels and consonants: Write a program that counts the number of vowels and consonants in a given string. Do this for the English language, which has five vowels (a, e, i, o, and u).

let vowCount = 0;

let consCount = 0;

str = str.toLowerCase();

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

let y = str[i];

if (y == "a" || y == "e" || y == "i" || y == "o" || y == "u") {

vowCount++;

} else if (y >= "a" && y <= "z") {

consCount++;

}

}

return { vowels: vowCount, consonants: consCount };

}

let result = VowcountsAndConscounts("HELLO WORLD!");

console.log(result);

1. Counting occurrences of a certain character: Write a program that counts the occurrences of a certain character in a given string .

let a = "The world is very big";

let b = "l";

count = 0;

for(i=0;i<a.length;i++)

{

if(a.charAt(i) === b)

{

count++;

}

}

console.log(count)

8. Removing white spaces from a string: Write a program that removes all white spaces from the given string.

let str = " remove all spaces ";

str = str.split(" ").join("");

console.log(str);

9. Joining multiple strings with a delimiter: Write a program that joins the given strings by the given delimiter.

const strings = ["ten", "tacle", "tech"];

const symbol = "+ ";

const result = strings.join(symbol);

console.log(result);

.

11. Checking whether a string is a palindrome: Write a program that determines whether the given string is a palindrome or not.

let str=prompt("Enter the string")

function ispalindrome(str){

let Left=0;

let Right=str.length-1;

while(Left<Right)

{

if(str[Left]!==str[Right]){

return false;

}

Left++;

Right--;

}

return true;

}

console.log(ispalindrome(str));

12. Removing duplicate characters: Write a program that removes the duplicate characters from the given string.

Let const string = "malayalam";

const uniqueString = [...new Set(string)].join("");

console.log(uniqueString);

13. Removing given characters: Write a program that removes the given character from the given string.

Let const str = "wasim aslam";

const charsToRemove = "a";

let result = "";

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

if (!charsToRemove.includes(str[i])) {

result += str[i];

}

}

console.log(result);

15. Sorting an array of strings by length:

const strings = [

"india",

"saudi arabia",

"dubai",

"english",

"tamil",

"apple",

];

Mathematical Assignment

1a)Basic arithmetic operation

let m = prompt("Enter m Value");

let n = prompt("Enter n value");

let mul = m\*n ;

console.log(mul);

let div = mul/2;

console.log(parseInt(div));

let res = div%7;

console.log(parseInt(res));

1b)

function sum(N) {

let ans = 0;

for (let i = 1; i <= N; i++) {

if (i % 2 == 0 || i % 7 == 0) {

ans += i;

}

}

return ans;

}

let N =prompt("enter the value");

console.log(sum(N));

1c)

let a = prompt("Enter a number: ");

if(a % 2 == 0) {

console.log("The number is even.");

}

else {

console.log("The number is odd.");

}