**1.Checking whether a string contains only digits:**

function contains(str)

{

return /^[0-9]+$/.test(str);

}

console.log(contains("98797"));

**2.Removing white spaces from a string:**

var str = " remove my spaces";

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

console.log(result);

**3.Reversing letters and words:**

var str = "compare";

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

console.log(result);

**4.Counting occurrences of a certain character:**

let str = "hello world";

let char = "l";

let count = str.split(char).length-1;

console.log(count);

**5.Checking whether a string is a palindrome:**

function palindrome(letter)

{

return letter===letter.split("").reverse().join("");

}

console.log(palindrome("level"));

console.log(palindrome("letters"));

**6.Converting String into int, long, float, or double:**

let string = "10";

let integer = parseInt(string);

console.log(integer);

let float = parseFloat(string);

console.log(float);

**7.Joining multiple strings with a delimiter:**

var string=["vel","murugan"];

var delimiter="-";

var output=string.join(delimiter);

console.log(output);

**8.Removing given characters**:

let str = "java-script";

let Remove = "-";

let newStr = str.split(Remove).join("");

console.log(newStr);

**9.Removing duplicate characters**:

let str = "velmurugan";

let result = [...new Set(str)].join("");

console.log(result);

**10.Sorting an array of strings by length**:

var String = ["Hello", "Hi", "Good Morning", "Good Afternoon"];

String.sort(function(a, b) {

return a.length - b.length;

});

console.log(String);

**11.Counting vowels and consonants:**

function countVowelsAndConsonants(str) {

let vowels = 0;

let consonants = 0;

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

if (str[i].match(/[aeiou]/gi)) {

vowels++;

} else if (str[i].match(/[^aeiou]/gi)) {

consonants++;

}

}

console.log("Number of vowels: " + vowels);

console.log("Number of consonants: " + consonants);

}

countVowelsAndConsonants("javascript");

**12.Prime Number:**

function isPrime(n) {

if (n <= 1)

return false;

for (let i = 2; i < n; i++)

if (n % i == 0)

return false;

return true;

}

isPrime(0)

console.log("true")

console.log("false");

**13.basic arithmetic operations:**

A) let value1=prompt("enter the value1");

let value2=prompt("enter the value2");

let multi=value1\*value2;

console.log(multi);

let div=multi/2;

console.log(div);

let result=div%7;

console.log(result);

B) var n=prompt("enter number");

if(n%2==0){

console.log("even number");

}

else

{

console.log("odd number");

}

c) function sum(n){

var rslt=0;

for (var i=1 ;i<=n;i++)

{

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

{

rslt+=i;

}

}return rslt;

}

var n=prompt("enter number");

console.log(sum(n));