// Write a program to find the sum of all even numbers in an array using a for loop.

//   Example: let arr = [1, 2, 3, 4, 5, 6];

let arr=[1,2,3,4,5,6];

let sum=0;

for(i=1;i<=6;i++)

    {

        if(arr[i]%2==0)

            {

                sum=sum+arr[i];

            }

    }

console.log("even no:",sum);

**Output:- 12**

// 2.Use a do-while loop to print the numbers from 1 to 10, but only if

// the number is not equal to 5.

// Example: let num = 1;

// Test Case: printNumbers()

function primenum(){

let num=1;

do{

    if(num!=5){

        console.log(num);

    }

    num++;

}

while(num<=10);

}

primenum();

**Output:- 1**

**2**

**3**

**4**

**6**

**7**

**8**

**9**

**10**

// 6.

// \*

// \*\*

// \*

// \*\*

// \*\*\*

function printPattern() {

    let pattern = [1, 2, 1, 2, 3];

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

      let stars = '';

      for (let j = 0; j < pattern[i]; j++) {

        stars += '\*';

      }

      console.log(stars);

    }

  }

  printPattern();

**Output:-**

**\***

**\*\***

**\***

**\*\***

// check whether given input string is palindrome or not?

// I/p:mom-->is a palindrome

// I/p:father:--->is not a palindrome.

let str="father";

let str1="";

for(i=str.length-1; i>=0;i--)

  {

    str1+=str[i]

  }

  if(str1==str)

    {

      console.log(`${str} is a palindrom`)

    }

    else{

      console.log(`${str} is not a palindrom`)

**Output:- father is not a palindrom**

// 4.Write a program using a do-while loop to print the numbers from 10 to 1,

// but only if the number is odd. If the number is even, print "Skipping even number".

// Example: let num = 10;

// Output: 9, Skipping even number, 7, Skipping even number, 5,

// Skipping even number, 3, Skipping even number, 1

let num=10;

 do{

  if(num%2==!0)

    {

      console.log(num)

    }

    else(

      console.log("Skipping even numbers")

    )

    num--

 }

 while(num>0)

**Output:-**

Skipping even numbers

9

Skipping even numbers

7

Skipping even numbers

5

Skipping even numbers

3

Skipping even numbers

1

// 5.Write a program using a while loop to find the average of all

// numbers in an array.

// If the average is greater than 50, print "Average is large".

// Example: let arr = [1, 2, 3, 4, 5, 6];

let arr=[1,2,3,4,5,6]

let i=0;

 let sum=0;

 while(i<arr.length){

  sum+=arr[i];

  i++;

 }

 let average=sum/arr.length;

 console.log("average of n.o:",average);

 if(average>50){

  console.log("Average is large");

 }

**Output:- average of n.o: 3.5**