**Task 04**

**Do the below programs in anonymous function and IIFE**

**Question 1:**

**Print odd number in an array**

var a= [1,2,3,4,5,6,7,8,9,10];

var odd= function(b)

{

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

{

if(i%2===0)

{

console.log(a[i]);

}

}

}

odd();

**Question 2:**

**Convert all the string to title caps in a string array**

var a = ["car","bike","train"];

(function(a)

{

let b = [];

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

{

b[i]=a[i].charAt(0).toUpperCase()+a[i].substr(1).toLowerCase(0);

}

console.log(b);

})(a);

**Question 3:**

**Sum of all numbers in an array**

var a=[1,2,3,4,5,6,7,8,9,10];

(function(a){

let b=0;

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

b=b+a[i];

}

console.log(b);

})(a);

**Question 4:**

**Return all the prime numbers in an array**

var a=[1,2,3,4,5,6,7,8,9];

var c=0;

var x=function(){

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

c=0;

for(var j=0;j<a[i];j++){

if(a[i]%2==0){

c=1;

}

}

if(c==0&&a[i]!=1&&a[i]!=0){

console.log(a[i]);

}

}

}

x();

**Question 5:**

**Return all the palindromes in an array**

var str=["madam","guvi"];

var a= function(){

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

var reverse= str[i].split("").reverse().join("");

if(reverse==str[i]){

console.log(str[i]);

}

}

}

a();

**Question 6:**

**Return median of two sorted arrays of same size**

var arr1=[1,12,15,26,38];

var arr2=[2,13,17,30,45];

(function(arr1){

let b=0;

for(i=0;i<arr1.length;i++){

b= b + arr1[i];

}

console.log(b);

})(arr1);

(function(arr2){

let c=0;

for(i=0;i<arr2.length;i++){

c=c+arr2[i];

}

console.log(c);

})(arr2);

console.log((b+c)/2);

**Question 7:**

**Remove duplicates from an array**

var str=["madam","guvi","madam","guvi","prasanna"];

var x=function(){

var newstr=[...new Set(str)];

console.log(newstr);

}

x();

**Question 8:**

**Rotate an array by k times and return the rotated array**

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

var k=3;

var b=[];

for(var i=k;i<arr.length;i++){

b.push(arr[i]);

}

for(i=0;i<k;i++){

b.push(arr[i]);

}

console.log(b);