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

A.Print odd numbers in an array

**iife**

(function(r){

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

if(r[i]%2!=0)

console.log(r[i]);

})([11,12,13,14,15]);

**output**

[11,13,15]

**ananamous**

let odd = function(r){

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

if(r[i]%2!=0)

console.log(r[i]);

}

odd([11,12,13,14,15]);

**output**

[11,13,15]

1. Convert all the strings to title caps in a string array

**iife**

(function(str) {

str = str.toLowerCase().split(' ');

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

str[i] = str[i].charAt(0).toUpperCase() + str[i].slice(1);

}

console.log(str.join(' '));

})("guvi mern stack");

**Output**

Guvi Mern Stack

**Ananamous**

let title\_caps=function(str) {

str = str.toLowerCase().split(' ');

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

str[i] = str[i].charAt(0).toUpperCase() + str[i].slice(1);

}

console.log(str.join(' '));

}

title\_caps("guvi mern stack");

**Output**

Guvi Mern Stack

1. Sum of all numbers in an array

**iife**

(function(r){

let sum=0;

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

sum=sum+r[i];

console.log(sum);

})([1,2,3,4,5]);

**Output**

**15**

**Ananamous**

let sum = function(r){

let sum=0;

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

sum=sum+r[i];

console.log(sum);

}

sum([1,2,3,4,5]);

**Output**

**15**

1. Return all the prime numbers in an array

**iife**

let prime = (function(r){

let c=0,d=0;

let res=[];

for(let i=0;i<r.length;i++,c=0)

{

for(let j=2;j<(r[i]/2)+1;j++)

if(r[i]%j==0)

c++;

if(c==0)

res[d++]=r[i];

}

return res;

})([2,3,4,5]);

console.log(prime);

**Output**

**[2,3,5]**

**Ananamous**

let prime = function(r){

let c=0,d=0;

let res=[];

for(let i=0;i<r.length;i++,c=0)

{

for(let j=2;j<(r[i]/2)+1;j++)

if(r[i]%j==0)

c++;

if(c==0)

res[d++]=r[i];

}

return res;

}

console.log(prime([2,3,4,5]));

**Output**

**[2,3,5]**

1. Return all the palindromes in an array

**iife**

let palindrome = (function(r){

let d=0;

let res=[];

for(let i=0;i<r.length;i++,c=0)

{

r2=r[i].split('').reverse().join('');

if(r[i]==r2)

res[d++]=r[i];

}

return res;

})(["wow","mom","guvi"]);

console.log(palindrome);

**Output**

**[wow,mom]**

**Ananamous**

let palindrome = function(r){

let d=0;

let res=[];

for(let i=0;i<r.length;i++,c=0)

{

r2=r[i].split('').reverse().join('');

if(r[i]==r2)

res[d++]=r[i];

}

return res;

}

console.log(palindrome(["wow","mom","guvi"]));

**Output**

**[wow,mom]**

1. Return median of two sorted arrays of same size

**iife**

let median = (function(r){

let len=r.length;

r.sort();

if(r.length%2==0)

return (r[Math.floor(len/2)]+r[Math.floor(len/2)-1])/2;

else

return r[Math.floor(len/2)];

})([5,1,2,3,4,6]);

console.log(median);

**Output**

**3.5**

**Ananamous**

let median=function(r){

let len=r.length;

r.sort();

if(r.length%2==0)

return (r[Math.floor(len/2)]+r[Math.floor(len/2)-1])/2;

else

return r[Math.floor(len/2)];

}

console.log(median([5,1,2,3,4,6]));

**Output**

**3.5**

1. Remove duplicates from an array

**iife**

let remove\_dup=(function(r){

let res=[];

r.forEach(e=>{

if(!res.includes(e))

{ res.push(e) }

})

return res;

})([1,2,3,4,6,6]);

console.log(remove\_dup);

**Output**

**[1,2,3,4,6]**

**Ananamous**

let remove\_dup=function(r){

let res=[];

r.forEach(e=>{

if(!res.includes(e))

{ res.push(e) }

})

return res;

}

console.log(remove\_dup([1,2,3,4,6,6]));

**Output**

**[1,2,3,4,6]**

1. Rotate an array by k times

**iife**

let rotate\_k=(function(r,k){

let res=[],d=0;

for(let i=k;i<r.length+k;i++)

res[d++]=r[i%r.length];

return res;

})([1,2,3,4,6],2);

console.log(rotate\_k);

**Output**

**[3,4,6,1,2]**

**Ananamous**

let rotate\_k=function(r,k){

let res=[],d=0;

for(let i=k;i<r.length+k;i++)

res[d++]=r[i%r.length];

return res;

}

console.log(rotate\_k([1,2,3,4,6],2));

**Output**

**[3,4,6,1,2]**

**Do the below programs in arrow functions**

1. Print odd numbers in an array

let odd =(r)=>{

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

if(r[i]%2!=0)

console.log(r[i]);

}

odd([11,12,13,14,15]);

**output**

[11,13,15]

1. Convert all the strings to title caps in a string array

let title\_caps=(str)=> {

str = str.toLowerCase().split(' ');

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

str[i] = str[i].charAt(0).toUpperCase() + str[i].slice(1);

}

console.log(str.join(' '));

}

title\_caps("guvi mern stack");

**Output**

**Guvi Mern Stack**

1. Sum of all numbers in an array

let sum =(r)=>{

let sum=0;

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

sum=sum+r[i];

console.log(sum);

}

sum([1,2,3,4,5]);

**Output**

**15**

1. Return all the prime numbers in an array

let prime = r=>{

let c=0,d=0;

let res=[];

for(let i=0;i<r.length;i++,c=0)

{

for(let j=2;j<(r[i]/2)+1;j++)

if(r[i]%j==0)

c++;

if(c==0)

res[d++]=r[i];

}

return res;

}

console.log(prime([2,3,4,5]));

**Output**

**[2,3,5]**

1. Return all the palindromes in an array

let palindrome = r=>{

let d=0;

let res=[];

for(let i=0;i<r.length;i++,c=0)

{

r2=r[i].split('').reverse().join('');

if(r[i]==r2)

res[d++]=r[i];

}

return res;

}

console.log(palindrome(["wow","mom","guvi"]));

**Output**

**[mom wow]**