**ANONYMOUS FUNCTION TASK**

1. **Print odd numbers in an array**

var odd\_num = function(a){

var arr=[];

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

{

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

arr.push(a[i]);

}

return arr;

}

console.log("ODD numbers" + odd\_num([1,2,3,4,5,6,7]));

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

var title\_str = function (tit) {

var stt = tit.split(' ');

var arst = [];

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

{

arst.push(stt[i][0].toUpperCase() + stt[i].slice(1, stt[i].length));

}

return arst.join(' ');

}

console.log("Capital string" + title\_str("i have a beautiful flower"));

1. **Sum of all numbers in an array**

var arr\_num = function (arr) {

var sum=0;

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

{

sum=sum+arr[i];

}

return (sum);

}

console.log("Sum of array elements" + arr\_num([2,4,6,8]));

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

var prime\_num = function (arr) {

var prime=[];

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

{

var flag = true;

if (arr[i] == 1 || arr[i] == 0 || arr[i]<0) {

flag = false;

}

else {

for(let j = 2; j <= arr[i]/2; j++) {

if (arr[i] % j == 0) {

flag = false;

break;

}

}

}

if(flag==true)

prime.push(arr[i]);

}

return (prime);

}

console.log("Prime elements of array" + prime\_num([2,4,6,8]));

1. **Return all the palindromes in an array.**

var pal\_el = function (arr) {

var pal=[];

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

{

var flag = true;

for(let j = 0; j < arr[i].length / 2; j++) {

if(arr[i][j] !== arr[i][arr[i].length - j - 1]){

flag = false;

break;

}

}

if(flag==true)

pal.push(arr[i]);

}

}

return (pal);

}

console.log("Palindrome elements of array" + pal\_el(['abc','AAA','ABBA','lkjd']));

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

var median = function (arr,arr2) {

var med=0;

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

{

arr.push(arr2[i]);

}

arr.sort();

if(arr.length%2 ==0)

med=(arr[arr.length/2-1] +arr[arr.length/2])/2;

else

med = arr[(arr.length)/2-1];

return (med);

}

console.log("Median of elements of array" + median([2,4,6,8],[0,1,2,3]));

1. **Remove duplicates from an array.**

var distinct\_elem = function (arr) {

var dist=[];

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

{

if(dist.indexOf(arr[i]) == -1)

dist.push(arr[i]);

}

return (dist);

}

console.log("Distinct elements of array" + destinct\_elem([2,8,5,4,6,8]));

1. **Rotate an array by K times and return the array.**

var rotate\_arr = function (arr,n) {

for(let i=0;i<n;i++)

{

var temp = arr[0];

for (let j = 0; j < arr.length - 1; j++)

arr[j] = arr[j + 1];

arr[arr.length-1] = temp;

}

return (arr);

}

console.log("Rotated array" + rotate\_arr([2,10,5,4,6,8],6));