**Programs in anonymous function and Arrow functions:**

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

let arr = [1,2,3,4,5,6,7,8,9,10];

let oddNumbers = arr.filter((element) => element%2 !== 0);

console.log(...oddNumbers);

**//2.Convert all the strings to title caps in a string array**

let arr = ['guvi','geek','chennai'];

let titleCaps = arr.map(element =>{

let temp = element.split("");

temp[0] = temp[0].toUpperCase();

return temp.join("");

});

console.log(titleCaps);

**//3.Sum of all numbers in an array**

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

let Sum = arr.reduce((total,element) => {

return total+element;

},0);

console.log(Sum);

**//4.Return all the primenumbers in an array:**

let arr = [1,3,4,5,9,11,24,29];

let primeNumbers = arr.filter(element => {

if(element < 2)

return false;

for(i=2;i\*i<=element;i++)

{

if(element%i === 0)

return false;

}

return true;

});

console.log(...primeNumbers);

**//5.Return all the palindromes in an array:**

let arr = ['1','refer','11','13','121','atta','133'];

let palindromes = (element) => {

let temp = element.split("");

let res = [];

for(i=0;i<=Math.floor(temp.length/2);i++)

{

if(temp[i] != temp[temp.length-1-i])

return false;

}

return true;

};

let palindromeArr = arr.filter(palindromes);

console.log(...palindromeArr);

**//6.Remove duplicates from an array:**

let arr = [1,2,3,4,2,1,6,7,3,2];

let removeDuplicates = (arr) => {

let unique = [];

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

{

let temp = arr[i];

if(unique.indexOf(temp) < 0)

unique.push(temp);

}

return unique;

};

console.log(...removeDuplicates(arr));

**//7.Rotate an array by K times and return the rotated array:**

let arr = [1,2,3,4,5,6,7,8];

let K = 3;

let rotatearr = (arr,K) => {

for(i=0;i<K;i++)

{

arr.push(arr[0]);

arr.shift();

}

return arr;

};

console.log(...rotatearr(arr,K));

**//8.Return median of two sorted arrays of same size:**

let arr1 = [1,3,5,7,9,11];

let arr2 = [2,4,6,8,10,12];

let median = (arr1,arr2) => {

let newarr = [];

let ind1 = 0;

let ind2 = 0;

while(ind1<arr1.length && ind2 < arr2.length)

{

if(arr1[ind1] < arr2[ind2])

{

newarr.push(arr1[ind1]);

ind1++;

}

else

{

newarr.push(arr2[ind2]);

ind2++;

}

}

while(ind1<arr1.length)

{

newarr.push(arr1[ind1]);

ind1++;

}

while(ind2<arr2.length)

{

newarr.push(arr2[ind2]);

ind2++;

}

let mid = Math.floor(newarr.length/2);

return (newarr[mid] + newarr[mid-1])/2;

};

console.log(median(arr1,arr2));