1. Do the below programs in anonymous function & IIFE
   1. Print odd numbers in an array

= > let Array = (function(arrayNumber){

return(arrayNumber.filter((item) =>{

return item % 2 !== 0

}))

})(arrayNumber);

console.log(“All odd numbers I an array:” + Array)

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

= > let resultStringArray = (function(stringArray){

return(stringArray.map((item) =>{

return item.toUpperCase()

}))

})(stringArray);

console.log(“all upper case string in array: ” + resultStringArray)

* 1. Sum of all numbers in an array

=>(function(){

let count =0;

for(let key of num){

count= count + key;

}

console.log(count);

})();

* 1. Return all the prime numbers in an array

=>(function(){

numArray = numArray.filter((number) => {

for (var i = 2; i <= Math.sqrt(number); i++) {

if (number % i === 0) return false;

}

return true;

});

console.log(numArray);

})();

* 1. Return all the palindromes in an array

=>function(){

var res =[];

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

let n = str[i].split("");

let r = n.reverse();

let v = r.join("");

if(str[i] == v){

res.push(str[i]);

}else{

continue;

}

}

console.log(res);

})();

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

=>(function(){

res=[];

res2=[];

arr1.sort((a,b)=>a-b);

arr2.sort((a,b)=>a-b);

let l = arr1.length /2;

if(l%2===0){

res.push(arr1[(arr1.length/2)-1],arr1[arr1.length/2]);

res2.push(arr2[(arr2.length/2)-1],arr2[arr2.length/2]);

}else{

res.push(arr1[Math.floor(arr1.length/2)]);

res2.push(arr2[Math.floor(arr2.length/2)]);

}

console.log(res1);

console.log(res2);

})();

* 1. Remove duplicates from an array

=>(function(){

let res =[];

res.push(num[0]);

for(i=1;i<num.length;i++){

if(res.indexOf(num[i]) == -1){

res.push(num[i]);

}

}

console.log(res);

})();

* 1. Rotate an array by k times

=>(function(){

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

arr1.push(arr1[i]);

}

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

arr1.shift();

}

console.log(arr1);

})();

**Do the below programs in arrow functions**

**A.PRINT odd numbers using Arrow function:**

var findodd = num => {

let res=[];

for(let key of num){

if(key%2 !== 0){

res.push(key);

}

}

return res;

}

console.log(findodd([1,2,3,4,5,8,9,13,15]));

**CONVERT ALL THE STRINGS TO TITLE CAPS IN STRING ARRAY**

var title\_caps = str=> console.log(str.split(" ").map(words=>words[0].toUpperCase()+words.substr(1).toLowerCase()).join(" "));

title\_caps("arun is practicing");

**SUM OF ALL THE NUMBERS IN A ARRAY:**

var sum\_all = num =>{

let count=0;

for(let key of num){

count = count + (+key);

}

return count;

};

console.log(sum\_all([1,2,3,4,5 ,6,8,7,9,10]));

**D. FIND PRIME NUMBERS IN A ARRAY:**

var prime\_find = num =>{

num = num.filter((element) => {

for(var i=2; i<=Math.sqrt(element);i++){

if(element % 2 === 0) return false;

}

return true;

});

return num;

};

console.log(prime\_find([2,3,4,5,6,7,8,9,11,13]));

**RETURN ALL THE PALINDROMES IN A ARRAY:**

let palindrome = str =>{

let rest=[];

for(let key of str){

let a = key.split("");

let p = a.reverse();

let m = p.join("");

if(key == m){

res.push(key);

}else{

continue;

}

}

return res;

};

console.log(palindrome(["anushka","pratik","munjamkar"]));