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

| **s.no** | **Print odd numbers in an array** | **O/P** |
| --- | --- | --- |
| **1** | **let a = [1,2,3,4,5,6,9];**  **function oddNumber(a)**  **{**  **for (let i = 0; i < a.length; i++)**  **{**  **if(a[i] % 2 == 1)**  **{**  **console.log(a[i]);**  **}**  **}**  **}**  **oddNumber(a)** | **1**  **3**  **5**  **9** |

| **s.no** | **Sum of all numbers in an array** | **O/P** |
| --- | --- | --- |
| **2** | **let a = [1,2,3,4,5,6,9];**  **let sum = 0;**  **function add (a)**  **{**  **for (let i = 0; i < a.length; i++)**  **{**  **sum = sum + a[i];**  **}**  **console.log(sum);**  **}**  **add (a)** | **30** |

| **s.no** | **Convert all the strings to title caps in a string array** | **O/P** |
| --- | --- | --- |
| **3** | **let a = ["virat","kohli","the","chase","master"];**  **function titlecaps(a)**  **{**  **for (let i = 0; i < a.length; i++)**  **{**  **let b = a[i].toUpperCase();**  **console.log(b);**  **}**  **}**  **titlecaps (a)** | **VIRAT**  **KOHLI**  **THE**  **CHASE**  **MASTER** |

| **s.no** | **Return all the prime numbers in an array** | **O/P** |
| --- | --- | --- |
| **4** | **let a = [10,34,56,78,90,13,17,100,4,5,9,11,371];**  **function primenumber(a){**  **for (let i=0;i<a.length;i++)**  **{**  **let p = 0;**  **let n = parseInt(a[i]/2);**  **let j = 2;**  **while(j<=n)**  **{**  **if(a[i] % j == 0)**  **{**  **p = 1;**  **break;**  **}**  **j++;**  **}**  **if (p == 0)**  **{**  **console.log("It is a prime number",a[i]);**  **}**  **}**  **}**  **primenumber(a)** | **It is a prime number 13**  **It is a prime number 17**  **It is a prime number 5**  **It is a prime number 11** |

| **s.no** | **Return median of two sorted arrays of the same size** | **O/P** |
| --- | --- | --- |
| **5** | **let arr1 = [15,3,1,7,4,13];**  **let arr2 = [12,5,9,22,45,2];**  **function addmedian(arr1,arr2)**  **{**  **let arr3 = arr1.concat(arr2)**  **arr3.sort(function(a,b){return a-b});**  **// console.log(arr3);**  **let len = arr3.length;**  **// console.log("length =",len);**  **let median = (len/2);**  **return arr3[median] += arr3[median-1];**  **// console.log(arr3[median] += arr3[median-1]);**  **}**  **console.log(addmedian(arr1,arr2));**  **// addmedian(arr1,arr2)** | **16** |

| **s.no** | **Remove duplicates from an array** | **O/P** |
| --- | --- | --- |
| **6** | **let arr = [1,1,2,5,6,8,5,7,1,5,6,8,4,5,6,10];**    **function removeDuplicates(arr) {**  **return [...new Set(arr)];**  **}**    **console.log(removeDuplicates(arr));** | **[ 1, 2, 5, 6, 8, 7, 4, 10]** |

***Do the below programs in arrow function :***

| **s.no** | **Print odd numbers in an array** | **O/P** |
| --- | --- | --- |
| **1** | **let a = [1,2,3,4,5,6,9];**  **let myFunction = (a) => {**  **for (let i = 0; i < a.length; i++)**  **{**  **if(a[i] % 2 == 1)**  **{**  **console.log(a[i]);**  **}**  **}**  **}**  **myFunction(a);** | **1**  **3**  **5**  **9** |

| **s.no** | **Sum of all numbers in an array** | **O/P** |
| --- | --- | --- |
| **2** | **let a = [1,2,3,4,5,6,9];**  **let sum = 0;**  **let myFunction = (a) =>**  **{**  **for (let i = 0; i < a.length; i++)**  **{**  **sum = sum + a[i];**  **}**  **return sum;**  **}**  **console.log(myFunction(a))** | **30** |

| **s.no** | **Convert all the strings to title caps in a string array** | **O/P** |
| --- | --- | --- |
| **3** | **let a = ["virat","kohli","the","chase","master"];**  **let myFunction = (a) =>**  **{**  **for (let i = 0; i < a.length; i++)**  **{**  **let b = a[i].toUpperCase();**  **console.log(b);**  **}**  **}**  **myFunction(a);** | **VIRAT**  **KOHLI**  **THE**  **CHASE**  **MASTER** |

| **s.no** | **Return all the prime numbers in an array** | **O/P** |
| --- | --- | --- |
| **4** | **let a = [10,34,56,78,90,13,17,100,4,5,9,11,371];**  **let myFunction = (a) =>**  **{**  **for (let i=0;i<a.length;i++)**  **{**  **let p = 0;**  **let n = parseInt(a[i]/2);**  **let j = 2;**  **while(j<=n)**  **{**  **if(a[i] % j == 0)**  **{**  **p = 1;**  **break;**  **}**  **j++;**  **}**  **if (p == 0)**  **{**  **console.log("It is a prime number",a[i]);**  **}**  **}**  **}**  **myFunction(a)** | **It is a prime number 13**  **It is a prime number 17**  **It is a prime number 5**  **It is a prime number 11** |