**Do the below programs in arrow function**

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

**Method 1:**

**let arr=[5,10,15,20,25,30,35,40,45,50];**

**let temp=[]**

**let odd=arr.filter((element)=>element%2 !==0 )**

**console.log(odd)**

##### Output:

[ 5, 15, 25, 35, 45]

**Method 2:**

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

**let temp=[]**

**let odd=(arr)=>{**

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

**if(arr[i]%2 !==0 ) {**

**temp.push(arr[i])**

**}**

**}**

**return temp**

**}**

**console.log(odd(arr))**

**Output:**

[ 1, 3, 5, 7, 9]

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

**let str="hi hello how are you"**

**let titleCase= (str)=> {**

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

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

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

**}**

**return str.join(' ');**

**}**

**console.log(titleCase(str))**

##### Output:

Hi Hello How Are You

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

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

**let sum=arr.reduce((acc,pre)=>acc+pre)**

**console.log(sum)**

##### Output:

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

**var array = [11,2,36,44,51,60,72,8,9,10,17];**

**var isPrime=(num) => {**

**for (let i = 2; num > i; i++) {**

**if (num % i == 0) {**

**return false;**

**}**

**}**

**return num > 1;**

**}**

**console.log(array.filter(isPrime));**

##### Output:

[ 11, 2, 17]

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

**let arr = ['101', '123', '12121', '989', '998'];**

**let palindrome=(word) => {**

**let firstHalf = word.slice(0, Math.ceil(word.length/2));**

**let secondHalfReversed = word.slice(Math.floor(word.length/2)).split('').reverse().join('');**

**return firstHalf === secondHalfReversed;**

**}**

**function getPalindromesFromArray(arr) {**

**return arr.filter(palindrome);**

**}**

**console.log(getPalindromesFromArray(arr));**

##### Output:

[ '101', '12121', '989']