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

var data = function () {

        var arr = [1, 2, 3, 4, 5, 6];

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

          if (arr[i] % 2 === 0) {

               console.log(arr[i]);

               }

    }

    }

    data();

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

|  |
| --- |
|  |
|  | Var str=function(string){  var sent = string.toLowerCase().split(" "); |
|  | for(var i = 0; i< sent.length; i++){ |
|  | sent[i] = sent[i][0].toUpperCase() + sent[i].slice(1); |
|  | } |
|  | sent.join(" "); |
|  | var res=""; |
|  | for(let i=0;i<sent.length-1;i++) |
|  | { |
|  | res+=sent[i]+" " |
|  | } |
|  | res+=sent[sent.length-1] |
|  | return res; |
|  | } |
|  | console.log(str("we are guvian")); |

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

  var array = [1, 2, 3, 4, 5];

   var sum = array.reduce(function(a, b){

   return a + b;

        }, 0);

             console.log(sum);

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

|  |
| --- |
|  |
|  | Var sum=function(a){  var res=""; |
|  | for(i=0;i<a.length;i++) |
|  | { |
|  | var count=0; |
|  | for(j=1;j<=a[i];j++) |
|  | { |
|  | if(a[i]%j===0) |
|  | { |
|  | count++ |
|  | } |
|  | } |
|  | if(count==2) |
|  | { |
|  | res+=a[i]+" " |
|  | } |
|  | } |
|  | return res; |
|  |  |
|  | } |
|  | console.log(sum([1,2,3,4,5,6,7,8,9,11])) |

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

var myArray = ['viicc', 'cecarar', 'honda', 'malayalam' ];

var b = myArray.filter(function(c,d,f){

var Cur = c.split('').reverse().join('');

if(c == Cur){

console.log( myArray[d] +" " + " is Palindrome" );

}

});

**g.Remove duplicates from an array**

|  |
| --- |
|  |
|  | var arr=function(a){  var b=[]; |
|  | var n=a.length; |
|  | for(let i=0;i<n-1;i++) |
|  | { |
|  | for(let j=i+1;j<n;j++) |
|  | { |
|  | if(a[i]===a[j]) |
|  | { |
|  | delete a[j] |
|  | } |
|  | } |
|  | } |
|  | for(let i=0;i<a.length;i++) |
|  | { |
|  | if(a[i]%10===Math.floor(a[i]%10)) |
|  | { |
|  | b.push(a[i]) |
|  | } |
|  | } |
|  | let c="" |
|  | for(let i=0;i<b.length-1;i++) |
|  | { |
|  | c+=b[i]+" "; |
|  | } |
|  | c+=b[b.length-1]; |
|  | return c; |
|  |  |
|  | } |
|  | console.log(arr([1,1,2,1,2,3,3,3,4,3,3,3,3,2,2,2])); |

**h.Rotate an array by k times**

var rot=function(a,k){

    n=a.length;

 c=[];

  d="";

  for(i=0;i<n;i++)

  {

    c[(i+k)%(n)]=a[i]

  }

for(i=0;i<c.length-1;i++)

  {

      d+=c[i]+" "

  }

  d+=c[c.length-1]

  return d;

}

console.log(rot([5,4,3,2,1],2))

2.<https://medium.com/@reach2arunprakash/guvi-zen-class-javascript-warm-up-programming-problems-15973c74b87f>

**3.Do the below programs in arrow functions**

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

let arr = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]

let odds = arr.filter(n => n % 2)

console.log(odds);

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

var str=(string)=>{

var sent = string.toLowerCase().split(" ");

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

sent[i] = sent[i][0].toUpperCase() + sent[i].slice(1);

}

sent.join(" ");

var res="";

for(let i=0;i<sent.length-1;i++)

{

res+=sent[i]+" "

}

res+=sent[sent.length-1]

return res;

}

console.log(str("we are guvian"));

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

  var array = [1, 2, 3, 4, 5];

  var sum = array.reduce((a, b)=>{

    return a + b;

        }, 0);

         console.log(sum);

      //Sum of all numbers in an a

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

var sum=(a)=>{

var res="";

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

{

var count=0;

for(j=1;j<=a[i];j++)

{

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

{

count++

}

}

if(count==2)

{

res+=a[i]+" "

}

}

return res;

}

console.log(sum([1,2,3,4,5,6,7,8,9,11]))

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

var myArray = ['viicc', 'cecarar', 'honda', 'malayalam' ];

var b = myArray.filter((c,d,f)=> {

var Cur = c.split('').reverse().join('');

if(c == Cur){

console.log( myArray[d] +" " + " is Palindrome" );

}

});