Function to add of two numbers ➔

```
function sumOfTwoInt(num1,num2){
    return num1 + num2;
  }
  console.log(sumOfTwoInt(1,2))
```

Calculate the Average of Three Numbers ➔

```
function avgOfThreeNum(n1,n2,n3){
    let result = n1+n2+n3;
    return result/3 ;
  }

  console.log(avgOfThreeNum(2,3,4))
```

Largest of Three numbers: ➔

```
function largest(n1,n2,n3){
    return (n1>n2)? (n1>n3?n1:n3) : (n2>n3?n2:n3);
}

console.log('largest is : ',largest(5,2,10));
```

program to check if number is odd or even : ➔

```
function oddOrEven(num){
    if(num%2==0){
        return `${num} is Even`
    }
    else{
        return `${num} is Odd`
    }
}

console.log(`${oddOrEven(11)}`)
```

sum of first 100 natural numbers using for loop: ➔

```
function sumOfNums(){
    let result = 0;
    for(let i=0;i<=100;i++){
        result += i;
    }
    return result
}
```

```
console.log(`sum of first 100 natural numbers: ${sumOfNums()}`)
```

factorial of a number : ➔

```
function factorialFn(num){
    if(num == 0){
        return 1
    }
    else{
        return num*factorialFn(num-1)
    }
}

console.log(`factorial of 5 is ${factorialFn(5)}`)
```

Fibonacci series: ➔

```
function fibonacci(limit){
    let fiboSeries = [0,1];
    let pointer1 = 0 ,pointer2 = 1

    for(let i=0;i<(limit-2);i++){
        let next = pointer1 + pointer2;
        pointer1 = pointer2
        pointer2 = next;
        fiboSeries.push(next)
    }
    return fiboSeries
}

console.log(fibonacci(10))
```

program to check if a number is prime or not : ➔

```
function primeOrNot(num){
    if(num <= 1){
        return `${num} not prime`
    }
    if(num == 2 || num == 3){
      return `${num} is prime`
    }
    if(num%2 == 0 || num%3 ==0){
        return `${num} not prime`
    }
    for(let i=0; i*i <= num; i = i+6){
```

```
        if(num%i == 0 || num%(i+2)==0){
            return `${num} not prime`
        }
    }
    return `${num} is prime`

}

console.log(`${primeOrNot(4)}`)
```

program to check if a string is palindrome or not: ➔

```
function isPallindrome(str){
    let j = str.length-1
    for(let i=0;i< str.length/2;i++){
        if(str[i]!=str[j]){
            return `"${str}" is not pallindrome`
        }
        j--;
    }
    return `"${str}" is pallindrome`
}

console.log(`${isPallindrome('malayalam')}`)
```

program to reverse a string: ➔

```
function strReversed(str){
    return str.split('').reverse().join('');
}
console.log(strReversed('i am alan'))
```

largest number in a given array: ➔

```
function largestFromArray(array) {
    return `${Math.max(...array)} is largest in the array [${array}]` ;
}

console.log(largestFromArray([1,2,3,4]));
```

sum of all elements in an array: ➔

```
// function sumOfElementsInArray(arr){
//     let result = 0;
//     for(let i=0;i<arr.length;i++){
//         result += arr[i]
//     }
```

```
//     return result
// }

// console.log(`${sumOfElementsInArray([1,2,3,4])}`)

function sumOfElementsInArray(arr){
    return arr.reduce((acc,num)=> acc+num,0)
}

console.log(`${sumOfElementsInArray([1,2,3,4])}`)
```

function to print triangle pattern: ➔

```
function trianglePrinting(rows){
    for(let i=0;i<=rows;i++){
        console.log('*'.repeat(i))
    }
}

trianglePrinting(5)
```

function to remove duplicates from an array: ➔

```
function removeDuplicates(arr){
    return [...new Set(arr)]
}
console.log(removeDuplicates([1,2,2,2,3,3,4]));
```

function to find intersection of two arrays: ➔

```
function findIntersection(arr1, arr2) {
    return arr1.filter(value => arr2.includes(value));
}

console.log(findIntersection([1, 2, 3], [2, 3, 4]));
```

function to merge two arrays and remove any duplicates ➔

```
function MergeTwoArrays(arr1,arr2){
    let merge1 = [...new Set(arr1)]
    let merge2 = [...new Set(arr2)]
```

```
    return [...new Set([...merge1,...merge2])]
}

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