Assignment-2

Assignment 2

1. Solution

```
let n = 9;

function checkNumber(num){
    if(n==0) return "zero"
    if(n>0) return "positive"
    if(n<0) return "negative"
}

const result = checkNumber(n);
console.log(`Entered Number is ${result}`)</pre>
```

2. Solution

```
let n = 5

function findFactorial(num) {
    if (num === 0) return 1;
    let fact = 1;
    for (let i = 1; i <=num; i++) {
        fact = fact * i;
    }
    return fact;
}

console.log(result)//120</pre>
```

```
let a=43,b=12;
function largestNumber(a,b){
   return a>b ? a :b;
}
console.log(largestNumber(a,b))//12
```

```
let isPalindromeString = "gfg" // "gfg", "lol"
function checkPalindromeString(str){
if (str === str.split("").reverse().join("")) return true
return false
}
console.log(checkPalindromeString(isPalindromeString))//true
```

```
function isPrimeNumber(num) {
    if (num === 2) return true;
    if (num % 2 === 0) return false;
    for (let i = 2; i < num; i++) {
        if (num % i == 0) return false
    }
    return true
}

function printAllPrimeNumberUptoN(n) {
    for(let i = 2; i < n; i++) {
        if (n===1) break;
        if (isPrimeNumber(i)) {
            console.log(i)
        }
}</pre>
```

```
}
printAllPrimeNumberUptoN(number)
```

```
function calculator(a,b,operator){
    if(operator=='+') return a+b;
    if(operator=='-') return a-b;
    if(operator=='*') return a*b;
    if(operator=='/') return a/b;
    if(operator=='%') return a%b;
}

console.log(calculator(2,3,'*'))//6
console.log(calculator(2,3,'+'))//5
console.log(calculator(2,3,'-'))//-1
console.log(calculator(2,3,'/'))//0.6666666666
console.log(calculator(10,3,'%'))// 1
```

```
return count;
}

console.log(countVowel("Amresh"))//2
console.log(countVowel("Ashish"))//2
console.log(countVowel("Shubhangi"))//3
console.log(countVowel("Abhiuday"))//4
console.log(countVowel("Vedant"))//2
```

```
// fibonacci
function fibonacciSeries(n) {
  let f1 = 0, f2 = 1;
```

```
let nextF = f1 + f2;
    console.log(f1)
    console.log(f2)
    for (let i = 3; i <= n; i++) {
        console.log(nextF)
        f1 = f2;
        f2 = nextF;
        nextF = f1 + f2
    }
}

fibonacciSeries(5) // 0 1 1 2 3
    console.log()
fibonacciSeries(15) // 0 1 1 2 3 5,8,13,21,34,55,89,144,233,377</pre>
```

```
function printTableUpto10(num) {
    for(let i =1; i<=10;i++) {
        console.log(i*num)
    }
}

printTableUpto10(5)
console.log()
printTableUpto10(15)
console.log()
printTableUpto10(25)</pre>
```