Assignment-1
(MERN Stack)

Ques 1. Write a program in JavaScript to compute Prime Number.

Sol.

```
function prime(num){
   if (num == 0 || num == 1){
      console.log("Neither prime nor composite!");
   }
   else if(num == 2){
      console.log("Prime number!")
   }
   else{
      var composite = false;
      for (let i = 2; i<=num/2; i++){
         if (num%i==0){
            composite = true
            break;
         }
      }
      if (composite == true){
         console.log("Composite number!");
      }
      else{
         console.log("Prime number!");
      }
   }
}

var num = parseInt(prompt("Enter the number: "));
prime(num);
```

Output:

```
Enter the number: 47
Prime number!
```

Ques 2. Write a program in JavaScript to compute ArmStrong Number.

Sol.

```
function armStrong(num, i){
    var num1 = num;
    var rem;
    var sum = 0;
    while (num!=0){
        rem = num%10;
        sum = sum + Math.pow(rem,i);
        num = Math.floor(num/10);
    }
    if (sum==num1){
        console.log("ArmStrong Number!")
    }
    else{
        console.log("NOT ArmStrong Number!")
    }
}
function order(num){
    var rem;
    var i = 0;
    while (num!=0){
        rem = num%10;
        num = Math.floor(num/10);
        i++;
    }
    return i;
}

var num = parseInt(prompt("Enter the number: "));
var power = order(num);
armStrong(num, power);
```

Output:

```
Enter the number: 54748
ArmStrong Number!
```

Ques 3. Write a program in JavaScript and make a function add() such that:

add() = 0
add(10) = 10
add(10, 20) = 30
add(10, “20”) = 30
add(10, “ten”) = 10
add(10, NaN) = 10
add(10, 20, 30, 40, 50) = 150

Sol.

```
function add(){
   var sum = 0;
   for(let i = 0; i<arguments.length; i++){
      sum = isNaN(parseInt(arguments[i]))?sum+0:sum+parseInt(arguments[i]);
   }
   console.log(sum);
}

add();
add(10);
add(10, 20);
add(10, "20");
add(10, "ten");
add(10, NaN);
add(10, 20, 30, 40, 50);
```

Output:

```
0
10
30
30
10
10
150
```