Assignment - 2
(MERN Stack)

Ques 1. Write the add() in JavaScript according to the Modern Way (using Rest arguments)
Sol.

```javascript
function add(...args){
    var n = args.length;
    var sum = 0;
    for(let i = 0; i<n; i++){
        if(args[i] instanceof Array){
            for(let j = 0; j<args[i].length; j++){
                sum = (isNaN(parseInt(arguments[i][j]))?sum+0:sum+parseInt(arguments[i][j]));
            }
        }
        else{
            sum = isNaN(parseInt(arguments[i]))?sum+0:sum+parseInt(arguments[i]);
        }
    }
    console.log(sum);
}
function one(){
    return 1;
}
function two(){
    return "2";
}
add();
add(10);
add(10, 20);
add(10, "20");
add(10, "ten");
add(10, NaN);
add(10, 20, 30, 40, 50);
add(1,[2,3,"4"], "1", "one");
add(1,[one(), two(), 3, "4"], one(), two(), "one", "two");
```

Output:

```
0
10
30
30
10
10
150
11
14
```

Ques 2. Write a JavaScript program to display the current day and time in the following format:
        Expected Output - Today is: Tuesday
                                    Current time is: 11 AM : 30 : 38
Sol.

```
function day(){
    var d = new Date();
    var day = d.getDay();
    var days = {1:"Monday", 2:"Tuesday", 3:"Wednesday", 4:"Thursday", 5:"Friday",
6:"Saturday", 7:"Sunday"};
    console.log("Today is: " +days[day]);
}
function time(){
    var t = new Date();
    var t1 = t.getHours();
    t1 = (t1>12)?`${t1-12} PM`:`${t1} AM`;
    var t2 = t.getMinutes();
    var t3 = t.getSeconds();
    console.log(`Current time is: ${t1} : ${t2} : ${t3}`);
}
day();
time();
```

Output:

```
Today is: Tuesday
Current time is: 11 AM : 57 : 15

Today is: Tuesday
Current time is: 8 PM : 24 : 13
```

Ques 3. Write a JavaScript program to get the current date.

Expected Output:

mm-dd-yyyy, mm/dd/yyyy, dd-mm-yyyy, dd/mm/yyyy

Sol.

```javascript
function date(){
    var dt = new Date();
    var d = dt.getDate();
    var m = dt.getMonth();
    var y = dt.getFullYear();
    console.log(`dd-mm-yyyy format: ${d}-${m+1}-${y}`);
    console.log(`dd/mm/yyyy format: ${d}/${m+1}/${y}`);
    console.log(`mm-dd-yyyy format: ${m+1}-${d}-${y}`);
    console.log(`mm/dd/yyyy format: ${m+1}/${d}/${y}`);
}
date();
```

Output:

```
dd-mm-yyyy format: 25-7-2023
dd/mm/yyyy format: 25/7/2023
mm-dd-yyyy format: 7-25-2023
mm/dd/yyyy format: 7/25/2023
```