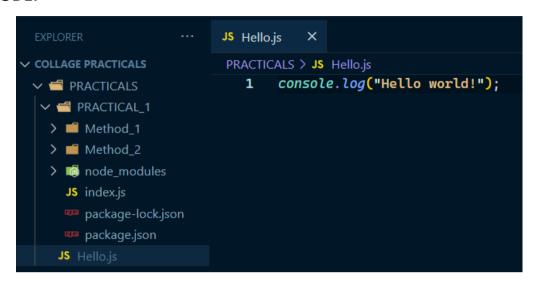
FSWD 5IT (2022-2023)

# **PRACTICAL 1**

Create Hello World – First NODE Program & Description
 CODE:



#### **OUTPUT:**

```
PS D:\Node Js\COLLAGE PRACTICALS\PRACTICALS> node Hello.js
Hello world!
PS D:\Node Js\COLLAGE PRACTICALS\PRACTICALS>
```

2. Create local NodeJS Custom Module "Calculator" and import it and use the module in current project.

## CODE:

```
... JS index.js X
COLLAGE PRACTICALS

✓ 

■ PRACTICALS

                         20 import {add , sub , mul ,div} from "./Method_2/Calc.js" ;
  ✓ 📹 PRACTICAL 1
                        > ii Method_1

✓ 

Method_2

                         24 let a = Number(process.argv[2]) , b = Number(process.argv[3]);
     JS Calc.js
                         25  log(add(a,b))
26  log(sub(a,b))
  > node_modules
                              log(mul(a,b))
                              log(div(a,b))
    🚥 package-lock.json
    JS Hello.js
```

FSWD 5IT (2022-2023)

```
JS Calc.is
✓ COLLAGE PRACTICALS
                             PRACTICALS > PRACTICAL_1 > Method_2 > JS Calc.js > ...

✓ ■ PRACTICALS

  ✓ ■ PRACTICAL 1
                              2 export const add = (a, b) \Rightarrow \{
   > ii Method_1
                                   let sum = a + b;

return "Addition Is : " + sum;

✓ 

Method_2

   > node modules
     JS index.is
                                   export const sub = (a, b) \Rightarrow \{
     package-lock.json
                                    let diff = a - b;
return "Subtraction Is : " + diff;
     package.json
    JS Hello.js
                                    export const mul = (a, b) \Rightarrow \{
                                     let prod = a * b;
                                     return "Multiplication Is : " + prod;
                                    };
                                    export const div = (a, b) \Rightarrow \{
                                       let divide = a / b;
                                      return "Division Is : " + divide;
```

## **OUTPUT:**

```
PS D:\Node Js\COLLAGE PRACTICALS\PRACTICALS\PRACTICAL_1> node index.js 10 5
Addition Is : 15
Subtraction Is : 5
Multiplication Is : 50
Division Is : 2
```

3. Asynchronously Read the file "input.txt" and apply specific operation given in file using local custom calculator.js module and write the result in file called "output.txt" (new line for each result).

#### CODE:

FSWD 5IT (2022-2023)

```
JS FileOperation.js X
                                                    ICALS > PRACHICAL[] > Method 3 Using Fs > 15 HeOperation, s > ...
import fs from "fs";
import { add, sub, mul, div } from "./Calc.js";
const cal = fs.readFileSync("./input.txt", "utf-8");
const arr = [];

✓ 

■ PRACTICALS

✓ 

✓ PRACTICAL_1

✓ 

Method 3 Using Fs

                                                       cal.split(/\r?\n/).forEach((line) \Rightarrow {
        input.txt
                                                       arr.push(line);
});
        output.txt
    > Method 1
                                                       for (let i = 0; i < arr.length / 3; i++) {
    let a = arr[i * 3 + 0];
    let b = arr[i * 3 + 1];
    let c = arr[i * 3 + 2];</pre>
    > Method_2
    > node_modules
                                                           a = parseInt(a);
b = parseInt(b);
                                                           let d = add(a, b);
fs.appendFileSync("output.txt", d.toString() + "\n");
} else if (c ≡ "SUB") {
                                                           let d = sub(a, b);
fs.appendFileSync("output.txt", d.toString() + "\n");
} else if (c == "MUL") {
                                                           let d = mul(a, b);
fs.appendFileSync("output.txt", d.toString() + "\n");
} else if (c == "DIV") {
                                                               let d = div(a, b);
fs.appendFileSync("output.txt", d.toString() + "\n");
```

## **OUTPUT:**

