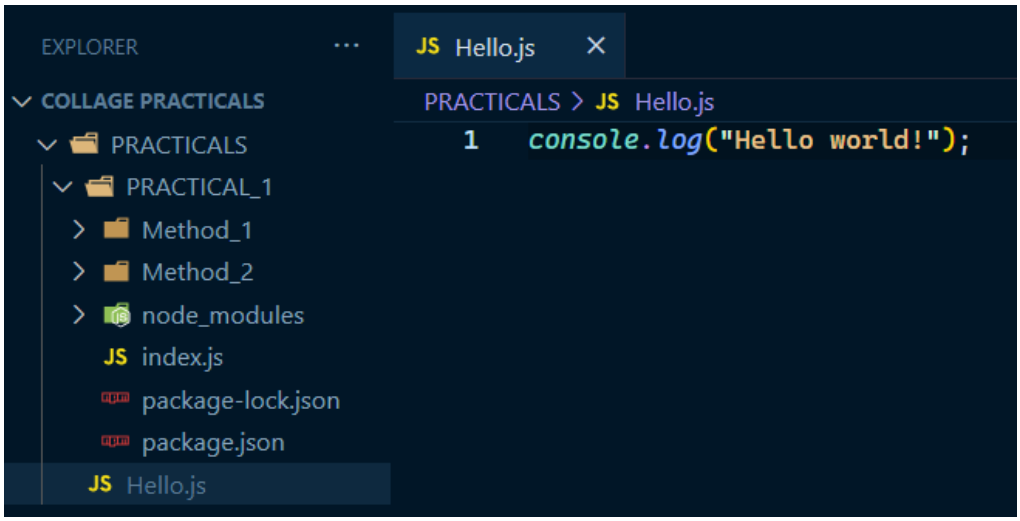
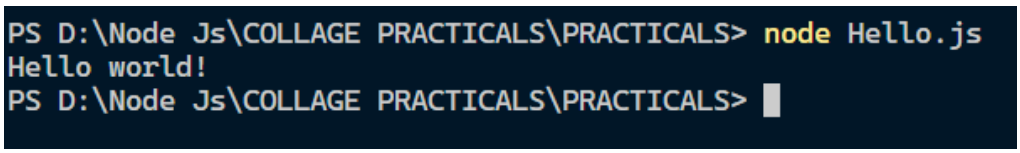
PRACTICAL 1

1. **Create Hello World – First NODE Program & Run it.**

   CODE:

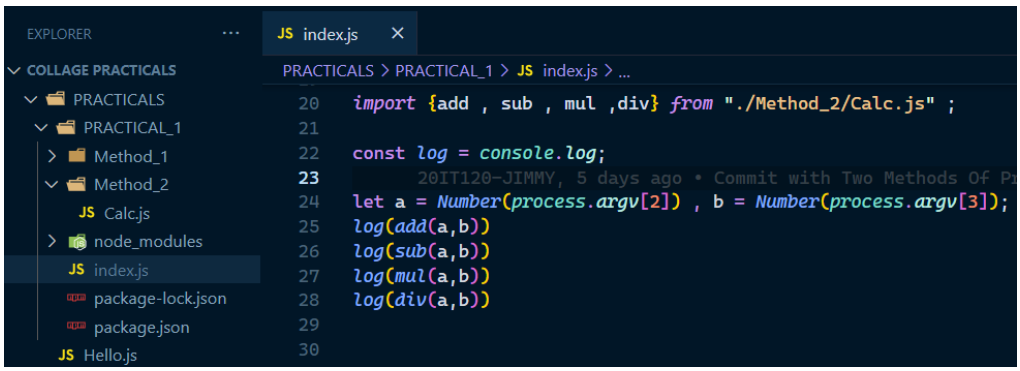


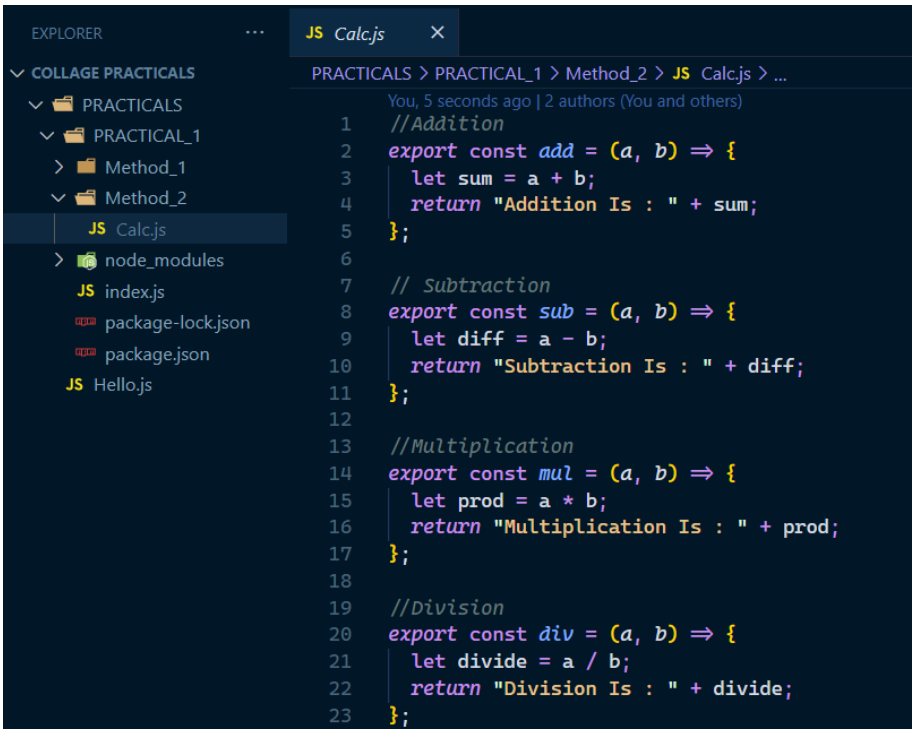
   OUTPUT :



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

   CODE :



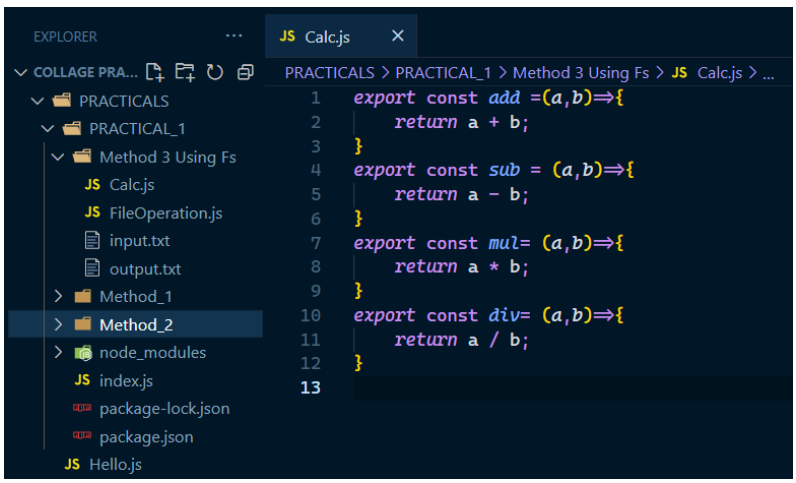


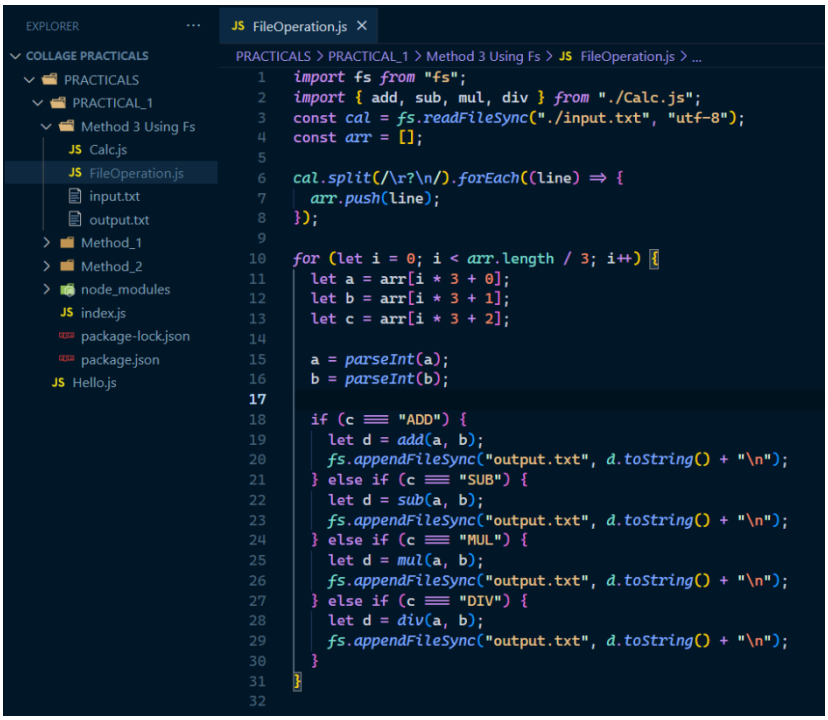
OUTPUT :

```
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
```

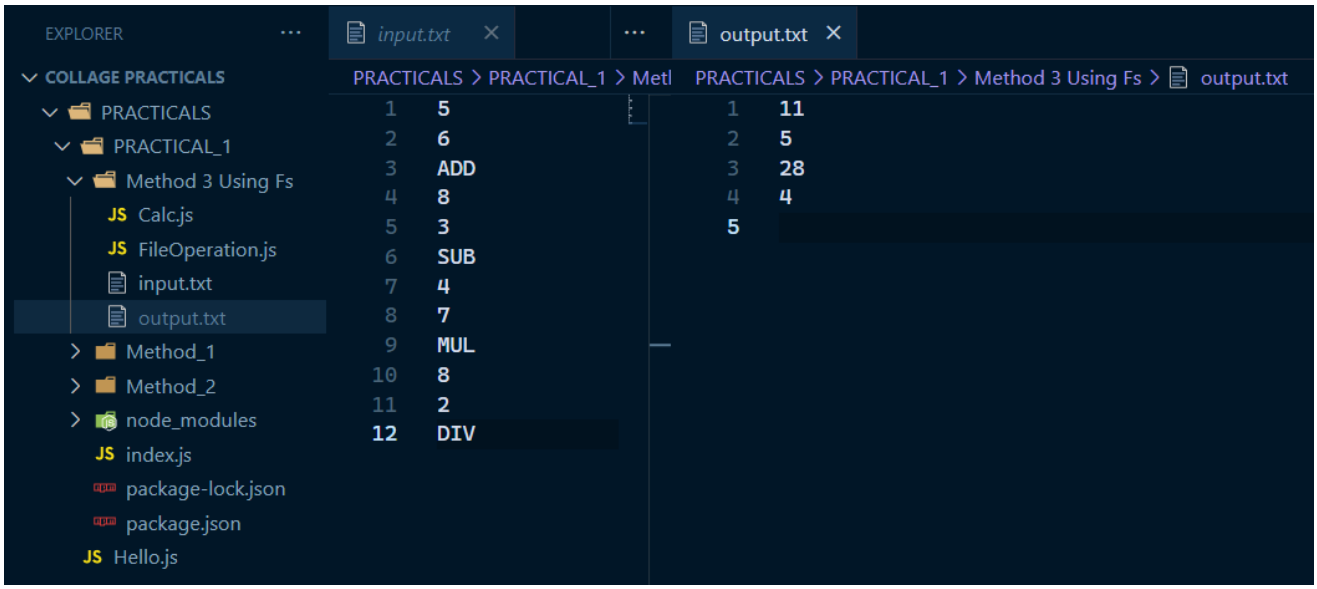
3. **Asynchronously Read the file “input.txt” and apply specific operation given in file using local custom calculator.js module and write the result in file called “output.txt” (new line for each result) .**

CODE :




EXPLORER
COLLAGE PRACTICALS
PRACTICALS
PRACTICAL_1
Method 3 Using Fs
Calc.js
FileOperation.js
input.txt
output.txt
Method_1
Method_2
node_modules
index.js
package-lock.json
package.json
Hello.js
FileOperation.js
PRACTICALS > PRACTICAL_1 > Method 3 Using Fs > FileOperation.js > ...
import fs from "fs";
import { add, sub, mul, div } from "./Calc.js";
const cal = fs.readFileSync("./input.txt", "utf-8");
const arr = [];
cal.split(/\r?\n/).forEach((line) => {
arr.push(line);
});
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];
a = parseInt(a);
b = parseInt(b);
if (c === "ADD") {
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 :


EXPLORER
COLLAGE PRACTICALS
PRACTICALS
PRACTICAL_1
Method 3 Using Fs
Calc.js
FileOperation.js
input.txt
output.txt
Method_1
Method_2
node_modules
index.js
package-lock.json
package.json
Hello.js
input.txt
PRACTICALS > PRACTICAL_1 > Meth
5
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ADD
8
3
SUB
4
7
MUL
8
2
DIV
output.txt
PRACTICALS > PRACTICAL_1 > Method 3 Using Fs > output.txt
11
5
28
4
5