1 Print

```
console.log("hellow world");
```

2callback

```
const { error } = require('console');
const fs =require('fs');
fs.readFile('file.txt','utf8',(err,data)=>{
    if(err){
        console.error('Error rading file :',err);
        return;
    }
    console.log('file content:',data);
});
```

3 date and time

File 1

```
module.exports.getDateTime=()=>{
    return new Date().toLocaleString();
}
```

File 2

```
const myDate=require("./myDateTime");
console.log("Date and Time ",myDate.getDateTime());
const myDate=require("./myDateTime");
console.log("Date and Time ",myDate.getDateTime());
```

4 displaymessege 10 times

```
function displayMessage(i,times){
    if (i<times){
        setTimeout(()=>
        {
            console.log("welcome to Node js");
            displayMessage(i + 1,times);

        },1000);

    }
}
const iterations = 10;
displayMessage(0,iterations);
```

5 UpperCase

```
const message ="hellow world";
const UpperCaseMessage =message.toUpperCase();
console.log(UpperCaseMessage);
```

6 Arithmatic operation

File 1 math

```
function Addition (a,b){
    return a+b;

}
function substraction(a,b){
    return a - b;
}
function multipication(a,b){
    return a * b;
}
function division(a,b){
    if(b==0){
        return "Error division by zero"
    }
    return a / b;
}
module.exports = {
    Addition,
    substractiont,
    multipication,
    division,
};
```

File 2 app

```
const math = require('./math');
const operation = process.argv[2];
const num1 = parseFloat(process.argv[3]);
const num2 = parseFloat(process.argv[4]);
let result;
switch (operation){
    case 'add':
        result = math.Addition(num1,num2);
        break;
        case 'sub':
            result = math.substraction(num1,num2);
            break;
            case 'mul':
                result=math.multipicaton(num1,num2);
                break;
                case 'div':
                    result=math.divsion(num1,num2);
                    break;
                    default:
                        result = 'invalid operation .please use
"add","sub","mul","Div",';

}
console.log('Result:${result}');
```

7 File read promises /*ctreated one file.txt*/

```
const { error } = require('console');

const fs =require('fs').promises;
fs.readFile('file.txt','utf8')
.then(data => console.log('file content:',data))
.catch(error=> console.error('Error reading file:',error));
```

8 datamodule

```
exports.getCurrentDateTime = function()
{
    return new Date().toLocaleString();

};
```

9 currentdirectory

```
const CurrentDirectory= process.cwd();
console.log("current work Directoy:",CurrentDirectory);
console.error('Error reading file',err);
```

10 Https port /*reaated pr.txt file*/

```
const http = require("http");
const fs = require ("fs");
const path = require ("path");

const server = http.createServer((req,res)=>{
    const filepath = path.join(__dirname,"pr.txt");
    fs.readFile(filepath,"utf8",(err,data)=>{
        if(err){
            res.writeHead(500,{"content.type ":"text/plain"});
            res.end("Error reading file ");

        }else{
            res.writeHead(200,{"content.type":"text/plain " });
            res.end(data);
        }
    })
})
const PORT=8000;
server.listen(PORT,()=>{
    console.log("server is running at http://localhost:8000/pr.txt");
});
```

11 file write,read,append,rename ,delete

```
const fs = require("fs");
const fileName ="demo.txt";
fs.writeFile(fileName,"hello,this is a Node.js file system demo",(err)=>{
    if (err)throw  err;
    console.log("file constent and data written");
    fs .readFile(fileName,"utf8",(err,data)=>{
        if (err)throw err;
        console.log("data appended");
        const newfileName="new_demo.txt";
        fs.rename(fileName,newfileName,(err)=>{
            if(err)throw err;
            console.log("file renamed");
            fs.unlink(newfileName,(err)=>{
                if (err)throw err;
                console.log("file deleted");
            });

        });
    });
});
```