# ASSIGNMENT 1

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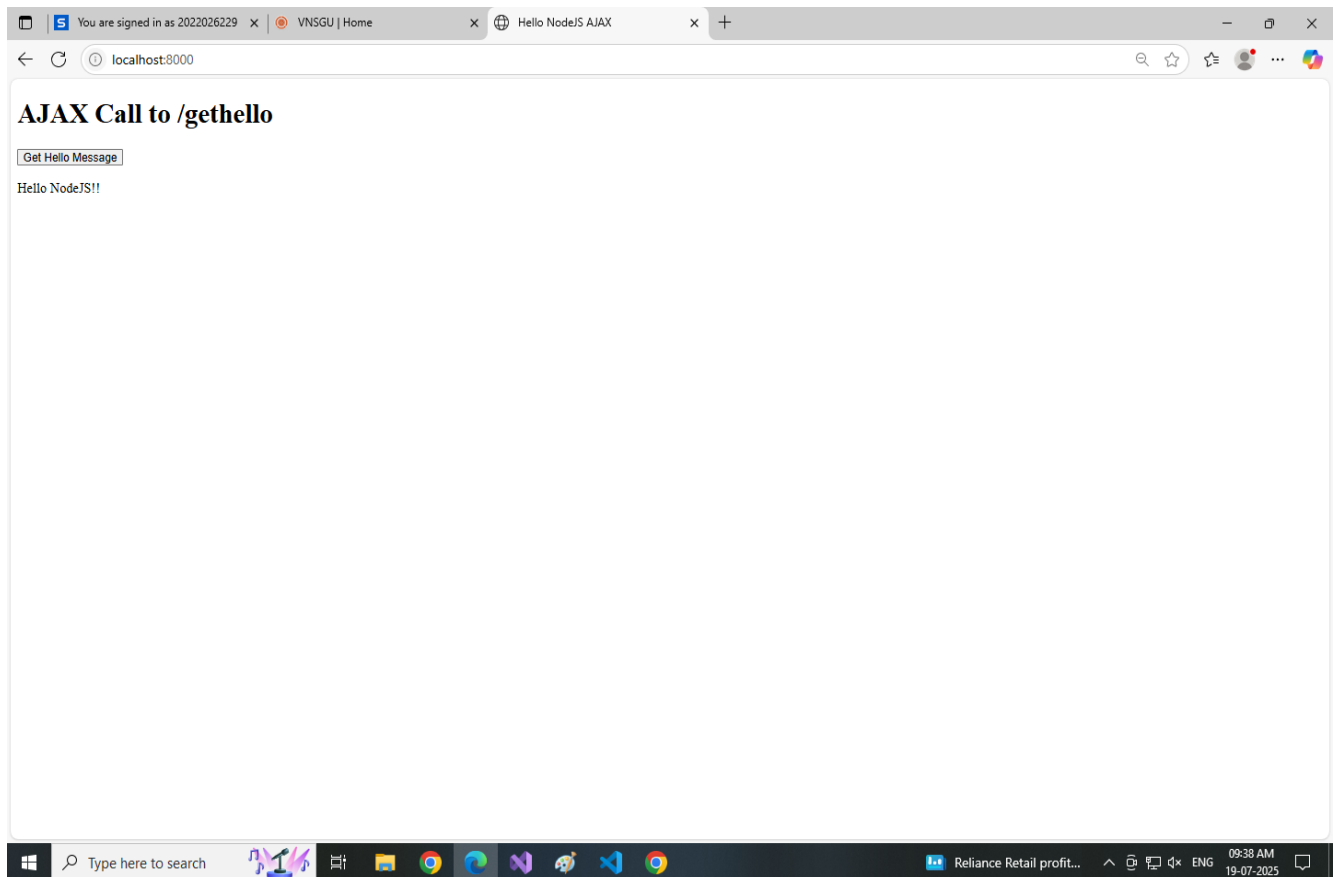
**DIV** : A

**ROLL NO** : 69
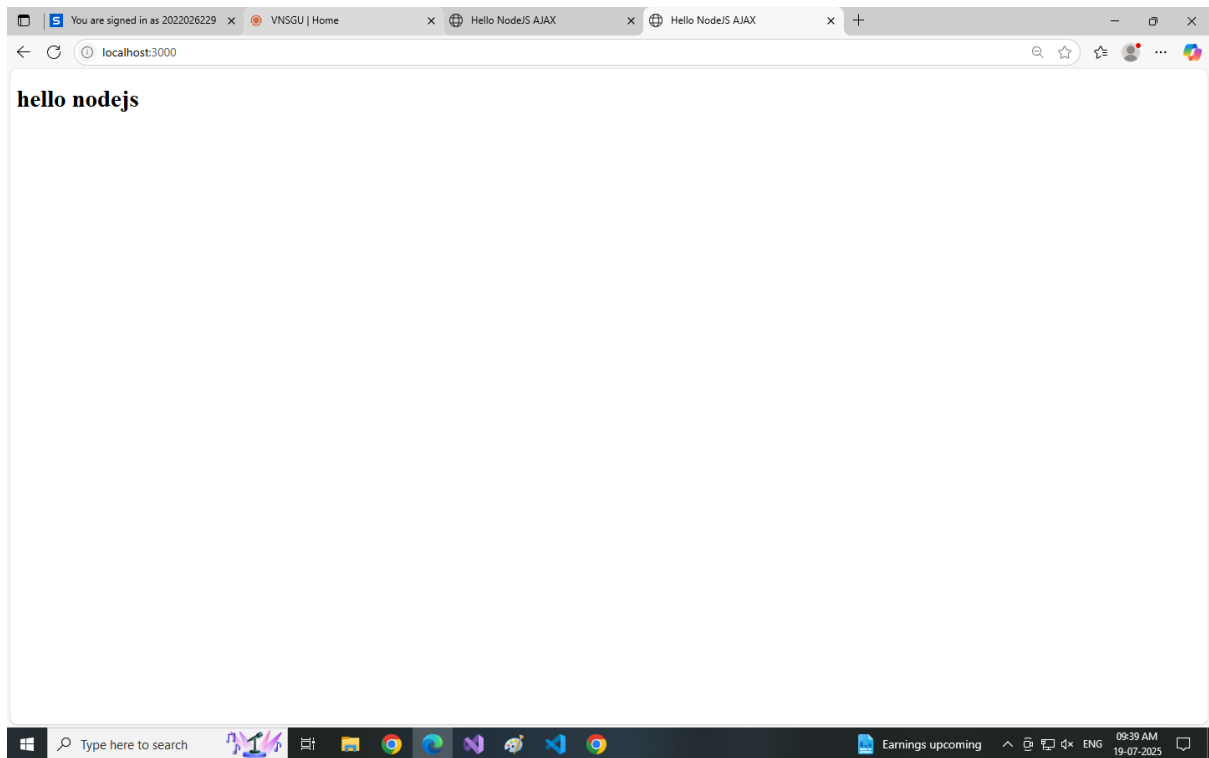
**SEM** : 7th

**SUBJECT** : NodeJS
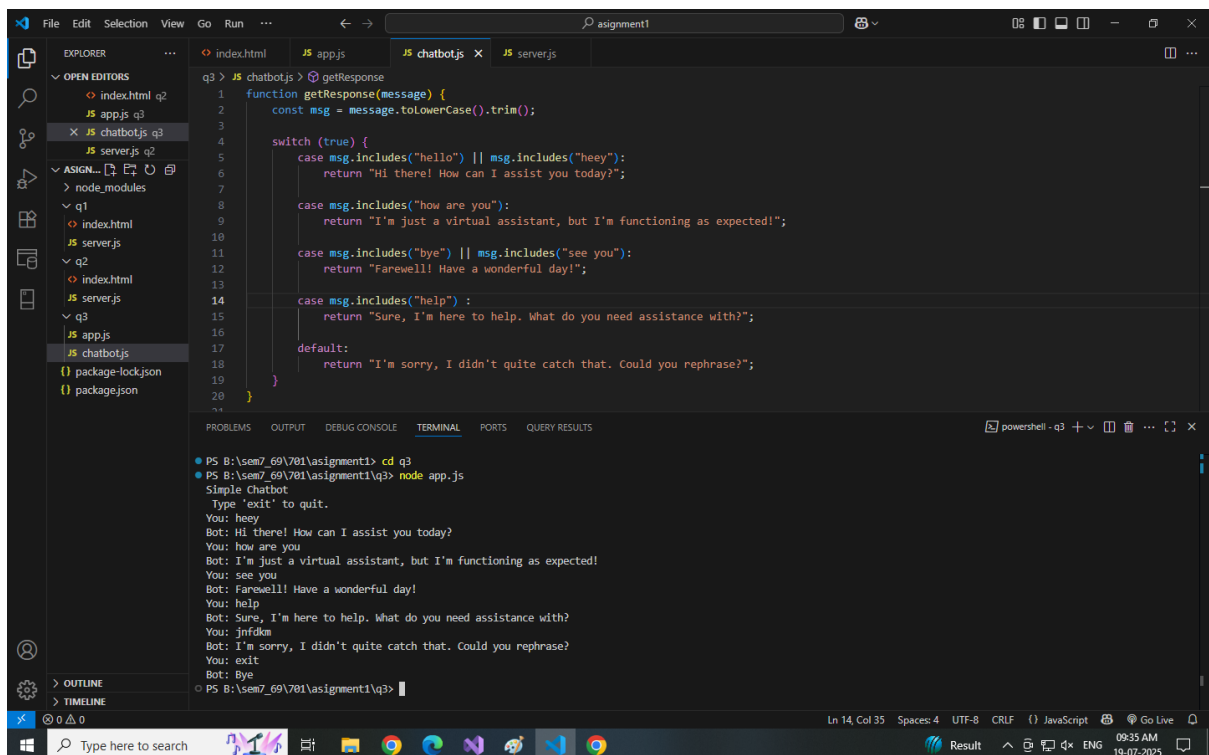

Q1

## Q2



**hello nodejs**

## Q3



```js
function getResponse(message) {
    const msg = message.toLowerCase().trim();

    switch (true) {
        case msg.includes("hello") || msg.includes("heey"):
            return "Hi there! How can I assist you today?";

        case msg.includes("how are you"):
            return "I'm just a virtual assistant, but I'm functioning as expected!";

        case msg.includes("bye") || msg.includes("see you"):
            return "Farewell! Have a wonderful day!";

        case msg.includes("help") :
            return "Sure, I'm here to help. What do you need assistance with?";

        default:
            return "I'm sorry, I didn't quite catch that. Could you rephrase?";
    }
}
```

```
PS B:\sem7_69\701\asignment1> cd q3
PS B:\sem7_69\701\asignment1\q3> node app.js
Simple Chatbot
 Type 'exit' to quit.
You: heey
Bot: Hi there! How can I assist you today?
You: how are you
Bot: I'm just a virtual assistant, but I'm functioning as expected!
You: see you
Bot: Farewell! Have a wonderful day!
You: help
Bot: Sure, I'm here to help. What do you need assistance with?
You: jnfdkm
Bot: I'm sorry, I didn't quite catch that. Could you rephrase?
You: exit
Bot: Bye
PS B:\sem7_69\701\asignment1\q3>
```

# Q4

```javascript
const fs = require('fs');
const archiver = require('archiver');

const output = fs.createWriteStream('myfolder.zip');

const archive = archiver('zip', { zlib: { level: 9 } });

output.on('close', () => {
    console.log('zip created successfully!');
});

archive.pipe(output);

archive.directory('myfolder/', false);

archive.finalize();
```

Terminal:
```
PS B:\sem7_69\701\asignment1\q4\myfolder> node zip.js
zip created successfully!
PS B:\sem7_69\701\asignment1\q4\myfolder>
```

# Q5

```javascript
const fs = require('fs');
const unzipper = require('unzipper');

fs.createReadStream('myfolder.zip')
  .pipe(unzipper.Extract({ path: 'unzipped' }))
  .on('close', () => {
    console.log('Unzip successfully');
  });
```

Terminal:
```
PS B:\sem7_69\701\asignment1\q5> node unzip.js
Unzip successfully
PS B:\sem7_69\701\asignment1\q5>
```

# Q6



```javascript
const fs = require('fs');
const util = require('util');

const unlinkFile = util.promisify(fs.unlink);


unlinkFile('sample.txt')
  .then(() => {
    console.log('File deleted successfully!');
  })
```

```
[Error: ENOENT: no such file or directory, unlink 'B:\sem7_69\701\assignment1\q6\sample.txt'] {
  errno: -4058,
  code: 'ENOENT',
  syscall: 'unlink',
  path: 'B:\\sem7_69\\701\\asignment1\\q6\\sample.txt'
}

Node.js v18.18.2
PS B:\sem7_69\701\asignment1\q6>
```
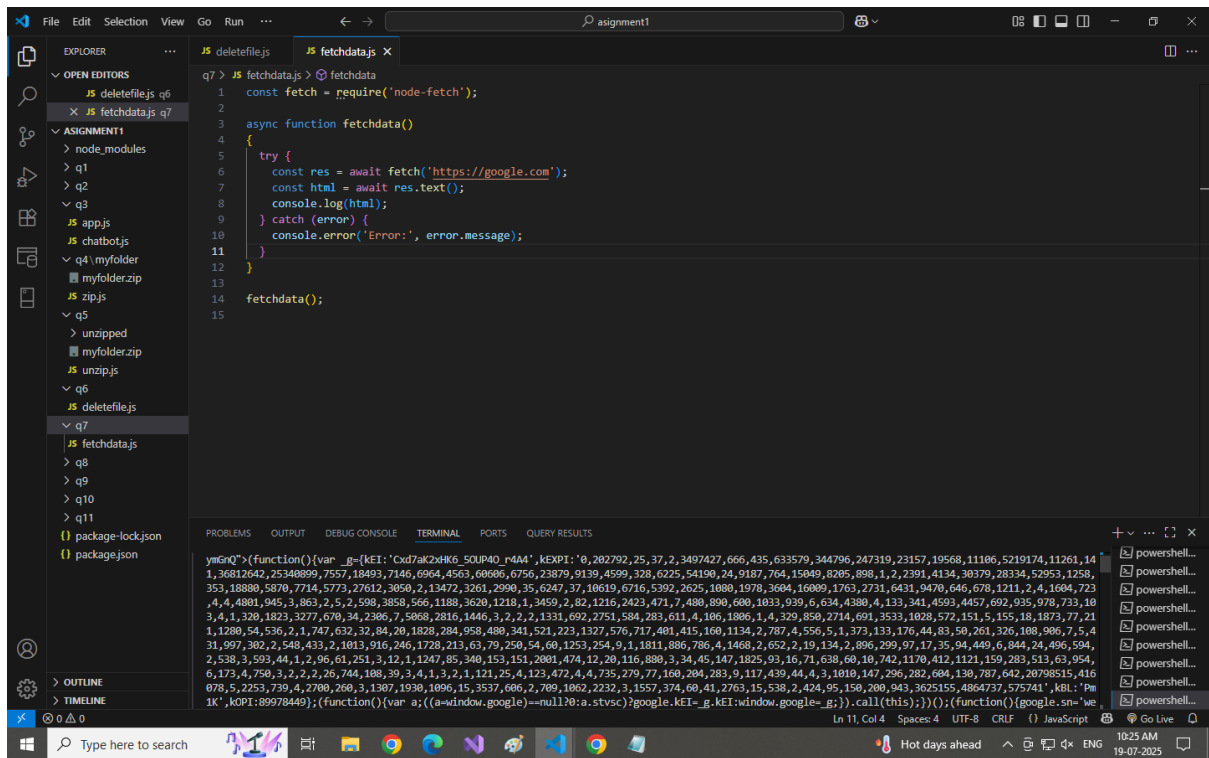


```javascript
const fs = require('fs');
const util = require('util');

const unlinkFile = util.promisify(fs.unlink);


unlinkFile('sample.txt')
  .then(() => {
    console.log('File deleted successfully!');
  })
```

```
PS B:\sem7_69\701\asignment1\q6> node deletefile.js
File deleted successfully!
PS B:\sem7_69\701\asignment1\q6>
```

## Q7
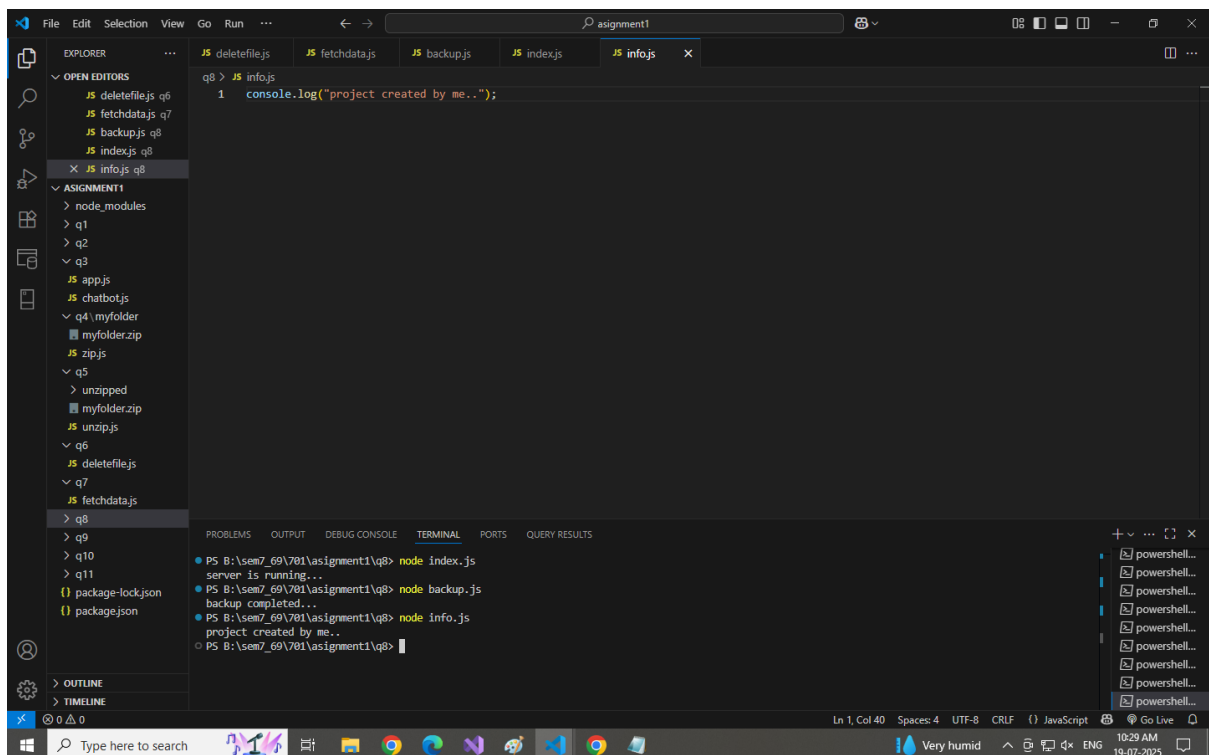
```javascript
const fetch = require('node-fetch');

async function fetchdata()
{
  try {
    const res = await fetch('https://google.com');
    const html = await res.text();
    console.log(html);
  } catch (error) {
    console.error('Error:', error.message);
  }
}

fetchdata();
```

Terminal output:

ymGnQ">(function(){var _g={kEI:'Cxd7aK2xHK6_5OUP4O_r4A4',kEXPI:'0,202792,25,37,2,3497427,666,435,633579,344796,247319,23157,19568,11106,5219174,11261,14
1,36812642,25340899,7557,18493,7146,6964,4563,60606,6756,23879,9139,4599,328,6225,54190,24,9187,764,15049,8205,898,1,2,2391,4134,30379,28334,52953,1258,
353,18880,5870,7714,5773,27612,3050,2,13472,3261,2990,35,6247,37,10619,6716,5392,2625,1080,1978,3604,16009,1763,2731,6431,9470,646,678,1211,2,4,1604,723
,4,4,4801,945,3,863,2,5,2,598,3858,566,1188,3620,1218,1,3459,2,82,1216,2423,471,7,480,890,600,1033,939,6,634,4380,4,133,341,4593,4457,692,935,978,733,10
3,4,1,320,1823,3277,670,34,2306,7,5068,2816,1446,3,2,2,2,1331,692,2751,584,283,611,4,106,1806,1,4,329,850,2714,691,3533,1028,572,151,5,155,18,1873,77,21
1,1280,54,536,2,1,747,632,32,84,20,1828,284,958,480,341,521,223,1327,576,717,401,415,160,1134,2,787,4,556,5,1,373,133,176,44,83,50,261,326,108,906,7,5,4
31,997,302,2,548,433,2,1013,916,246,1728,213,63,79,250,54,60,1253,254,9,1,1811,886,786,4,1468,2,652,2,19,134,2,896,299,97,17,35,94,449,6,844,24,496,594,
2,538,3,593,44,1,2,96,61,251,3,12,1,1247,85,340,153,151,2001,474,12,20,116,880,3,34,45,147,1825,93,16,71,638,60,10,742,1170,412,1121,159,283,513,63,954,
6,173,4,750,3,2,2,26,744,108,39,3,4,1,3,2,1,121,25,4,123,472,4,4,735,279,77,160,204,283,9,117,439,44,4,3,1010,147,296,282,604,130,787,642,20798515,416
078,5,2253,739,4,2700,260,3,1307,1930,1096,15,3537,606,2,709,1062,2232,3,1557,374,60,41,2763,15,538,2,424,95,150,200,943,3625155,4864737,575741',kBL:'Pm
1K',kOPI:89978449};(function(){var a;(a=window.google==null?0:a.stvsc)?google.kEI=_g.kEI:window.google=_g;}).call(this);})();(function(){google.sn='we

## Q8
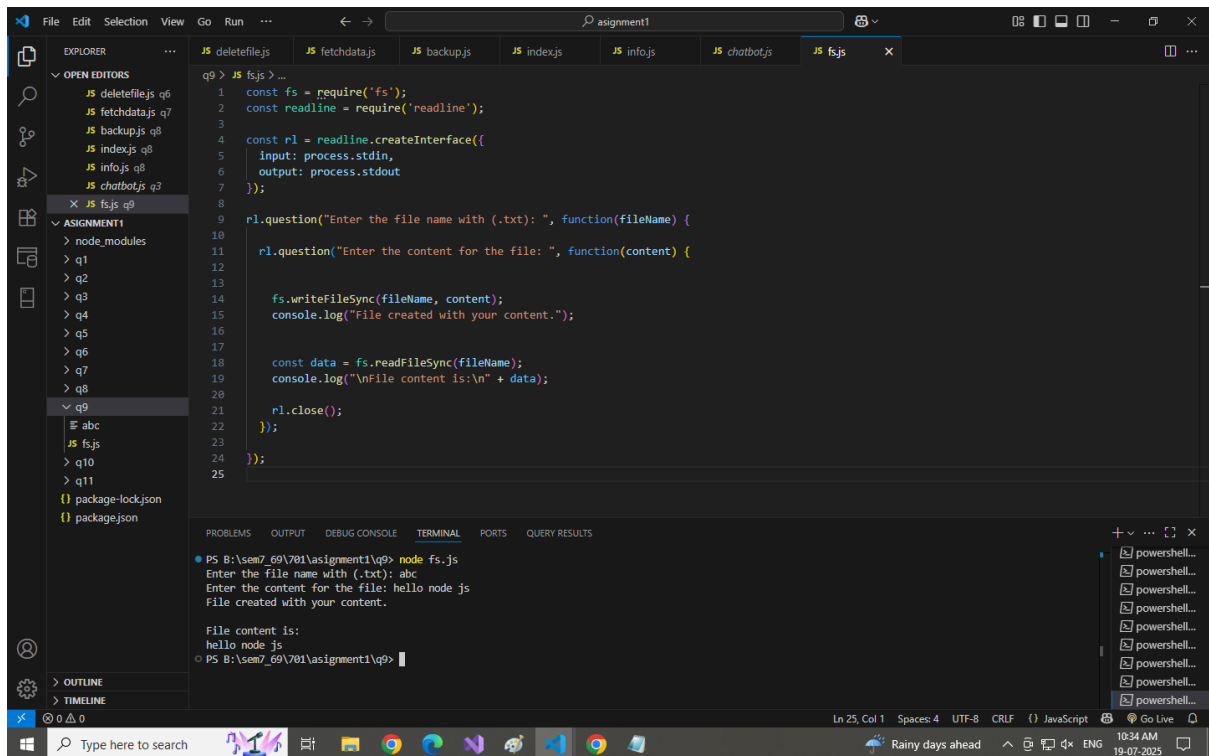
```javascript
console.log("project created by me..");
```

Terminal output:

```
PS B:\sem7_69\701\assignment1\q8> node index.js
server is running...
PS B:\sem7_69\701\assignment1\q8> node backup.js
backup completed...
PS B:\sem7_69\701\assignment1\q8> node info.js
project created by me..
PS B:\sem7_69\701\assignment1\q8>
```

## Q9

```javascript
const fs = require('fs');
const readline = require('readline');

const rl = readline.createInterface({
  input: process.stdin,
  output: process.stdout
});

rl.question("Enter the file name with (.txt): ", function(fileName) {

  rl.question("Enter the content for the file: ", function(content) {

    fs.writeFileSync(fileName, content);
    console.log("File created with your content.");

    const data = fs.readFileSync(fileName);
    console.log("\nFile content is:\n" + data);

    rl.close();
  });

});
```
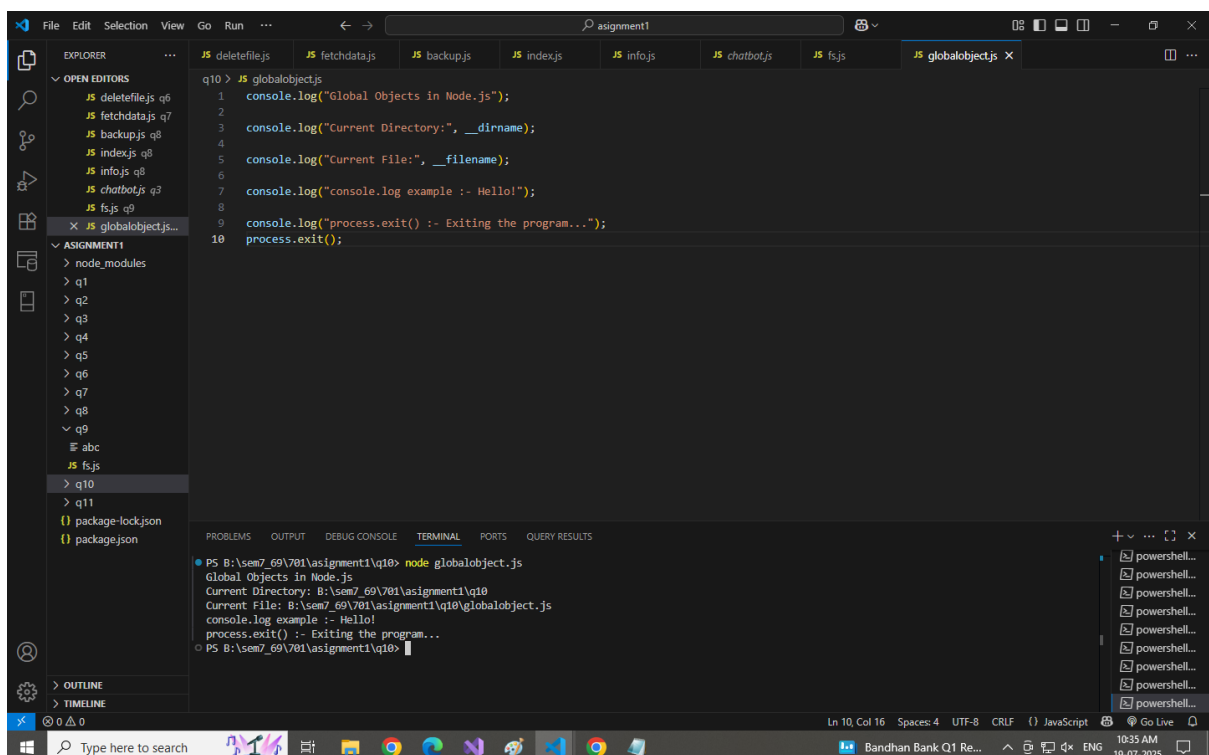
```
PS B:\sem7_69\701\assignment1\q9> node fs.js
Enter the file name with (.txt): abc
Enter the content for the file: hello node js
File created with your content.

File content is:
hello node js
PS B:\sem7_69\701\assignment1\q9>
```

## Q10

```javascript
console.log("Global Objects in Node.js");

console.log("Current Directory:", __dirname);

console.log("Current File:", __filename);

console.log("console.log example :- Hello!");

console.log("process.exit() :- Exiting the program...");
process.exit();
```

```
PS B:\sem7_69\701\assignment1\q10> node globalobject.js
Global Objects in Node.js
Current Directory: B:\sem7_69\701\assignment1\q10
Current File: B:\sem7_69\701\assignment1\q10\globalobject.js
console.log example :- Hello!
process.exit() :- Exiting the program...
PS B:\sem7_69\701\assignment1\q10>
```

# Q11



```
// const isEvenNumber = require('./index');

const isEvenNumber = require('is-even-number');

console.log(isEvenNumber(4));
console.log(isEvenNumber(5));
console.log(isEvenNumber(0));
```

```
PS D:\sem 7\node js\asignment1\assignment1\q11> node test.js
true
false
true
PS D:\sem 7\node js\asignment1\assignment1\q11>
```