

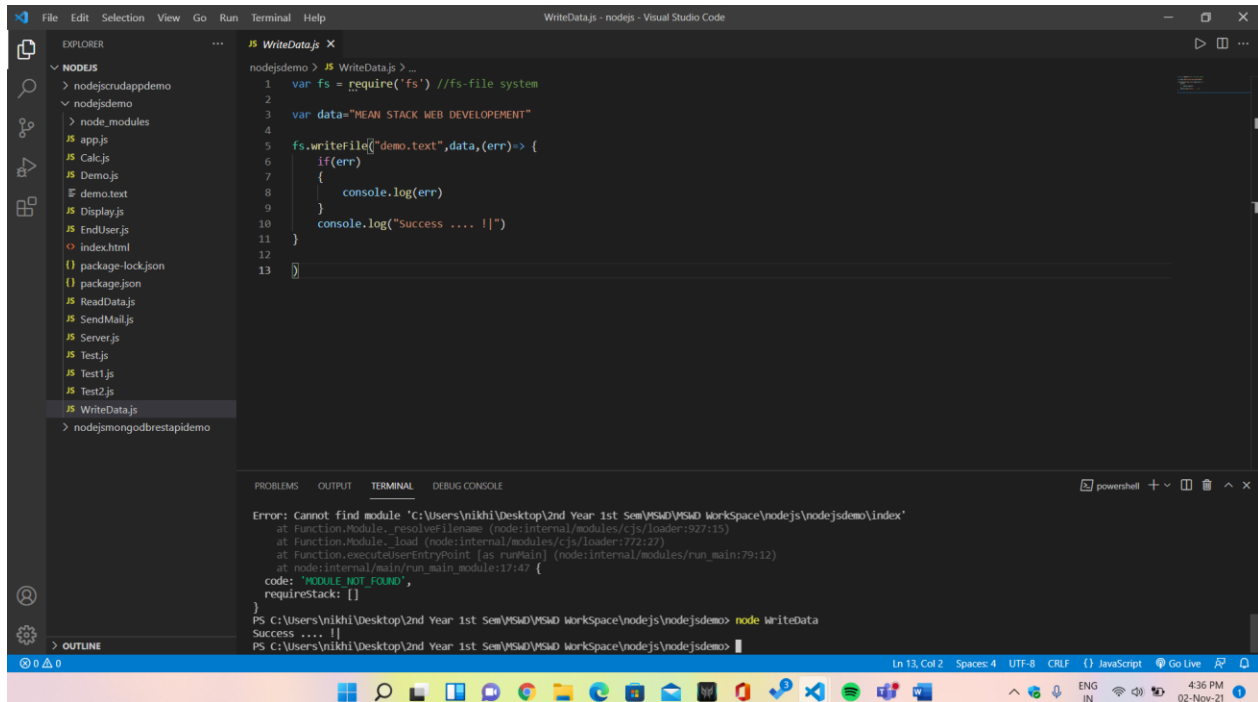
## Skill 8

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Section No: S09

### WriteData.js:



The screenshot shows the Visual Studio Code editor with a file named `WriteData.js` open. The file contains the following JavaScript code:

```
1 var fs = require('fs') //fs-file system
2
3 var data="MEAN STACK WEB DEVELOPEMENT"
4
5 fs.writeFile("demo.txt",data,(err)=> {
6   if(err)
7   {
8     console.log(err)
9   }
10  console.log("Success .... !!")
11 }
12
13 }
```

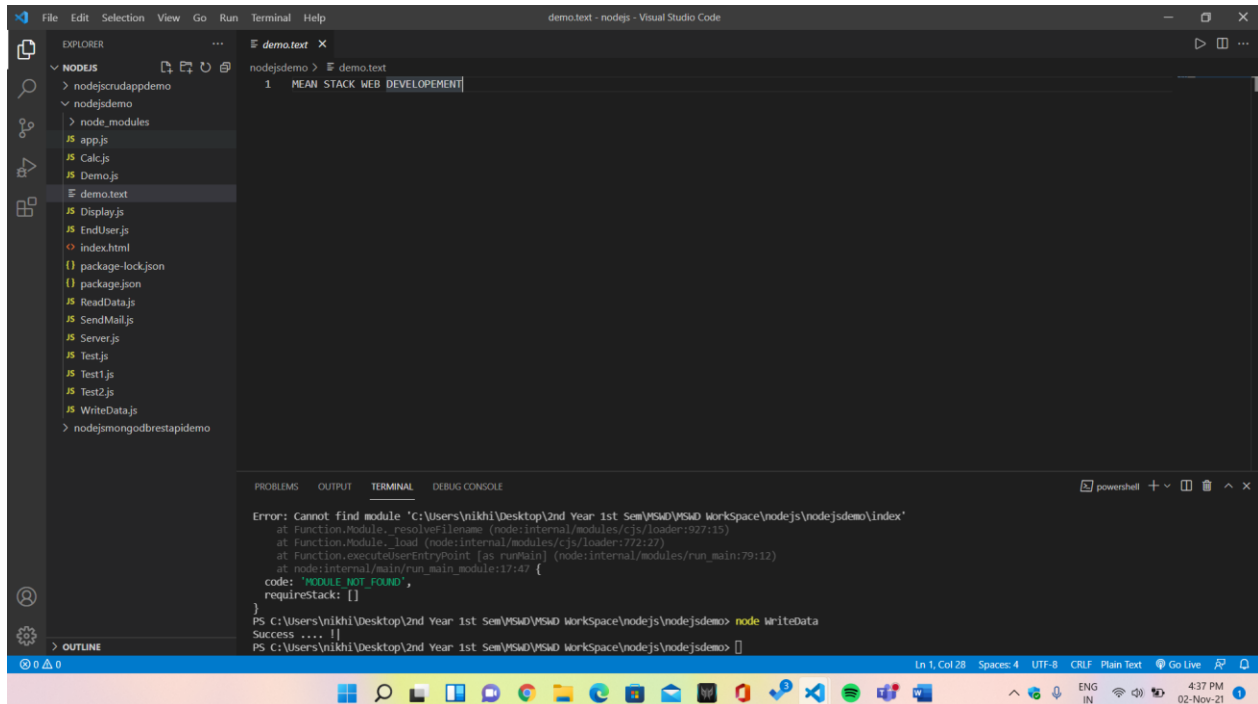
The Explorer sidebar on the left shows a project structure with a `nodejsdemo` folder containing various files like `app.js`, `Calc.js`, `Demo.js`, `demo.txt`, `Display.js`, `EndUser.js`, `index.html`, `package-lock.json`, `package.json`, `ReadData.js`, `SendMail.js`, `Server.js`, `Test.js`, `Test1.js`, `Test2.js`, `WriteData.js`, and `nodejsmongodbrestapidemo`.

The Terminal window at the bottom shows an error message:

```
Error: Cannot find module 'C:\Users\nikh\Desktop\2nd Year 1st Sem\VSAD\VSAD workspace\nodejs\nodejsdemo\index'
at Function.Module._resolveFilename (node:internal/modules/cjs/loader:927:15)
at Function.Module._load (node:internal/modules/cjs/loader:772:27)
at Function.executeUserEntryPoint [as runMain] (node:internal/modules/run_main:79:12)
at node:internal/main/run_main_module:17:47 {
  code: 'MODULE_NOT_FOUND',
  requireStack: []
}
PS C:\Users\nikh\Desktop\2nd Year 1st Sem\VSAD\VSAD workspace\nodejs\nodejsdemo> node WriteData
Success .... !!
PS C:\Users\nikh\Desktop\2nd Year 1st Sem\VSAD\VSAD workspace\nodejs\nodejsdemo>
```

The status bar at the bottom indicates the current line is 13, column 2, with 4 spaces, using UTF-8 encoding and CRLF line endings. The language is set to JavaScript, and the Go Live extension is active.

# demo.text:

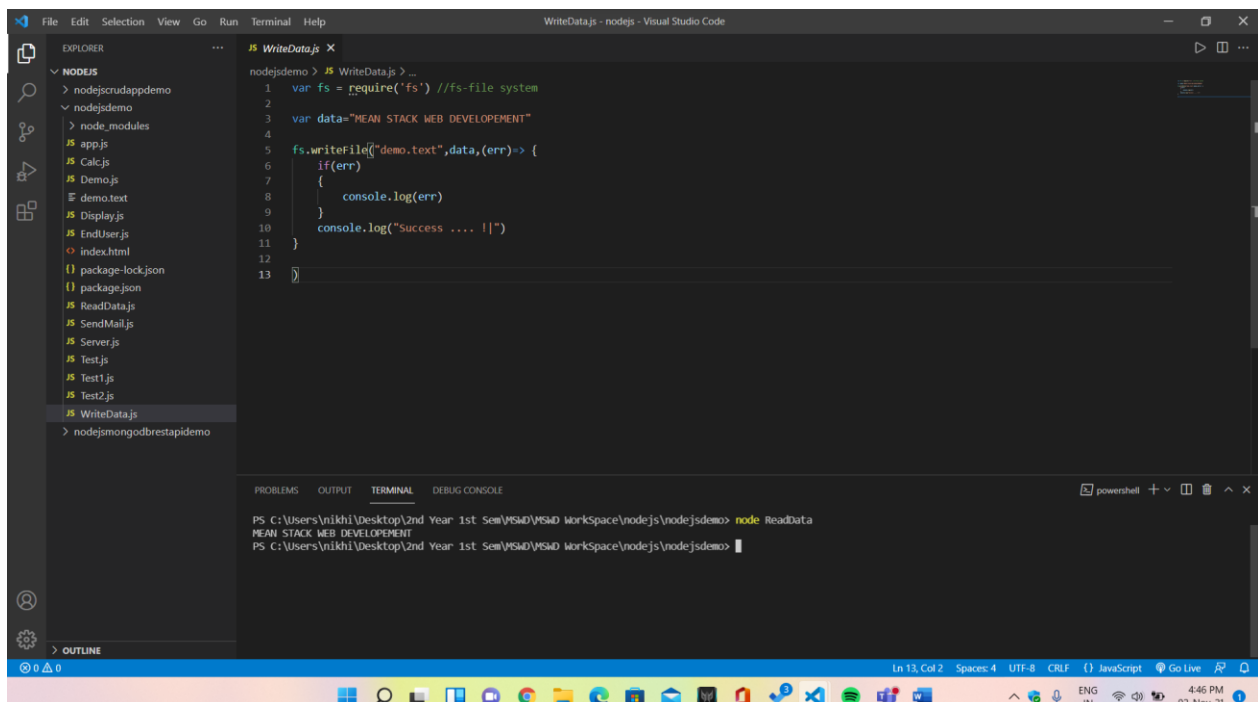


The screenshot shows the Visual Studio Code interface. The Explorer panel on the left displays a project structure with a folder named 'nodejsdemo' containing several files, including 'demo.text'. The main editor window shows the content of 'demo.text', which is '1 MEAN STACK WEB DEVELOPEMENT'. The Terminal panel at the bottom displays an error message: 'Error: Cannot find module 'C:\Users\nikhil\Desktop\2nd Year 1st Sem\VSAD\VSAD Workspace\nodejs\nodejsdemo\Index' at Function.Module.resolveFilename (node:internal/modules/cjs/loader:927:15)'. The status bar at the bottom indicates the file is at line 1, column 28, with 4 spaces, in UTF-8 encoding, CRLF line endings, and Plain Text format.

```
nodejsdemo > demo.text
1 MEAN STACK WEB DEVELOPEMENT
```

```
Error: Cannot find module 'C:\Users\nikhil\Desktop\2nd Year 1st Sem\VSAD\VSAD Workspace\nodejs\nodejsdemo\Index'
    at Function.Module.resolveFilename (node:internal/modules/cjs/loader:927:15)
    at Function.Module._load (node:internal/modules/cjs/loader:772:27)
    at Function.executeUserEntryPoint [as runMain] (node:internal/modules/run_main:79:12)
    at node:internal/main/run_main_module:17:47 {
  code: 'MODULE_NOT_FOUND',
  requireStack: []
}
PS C:\Users\nikhil\Desktop\2nd Year 1st Sem\VSAD\VSAD Workspace\nodejs\nodejsdemo> node WriteData
Success .... !!
PS C:\Users\nikhil\Desktop\2nd Year 1st Sem\VSAD\VSAD Workspace\nodejs\nodejsdemo>
```

# ReadData.js:

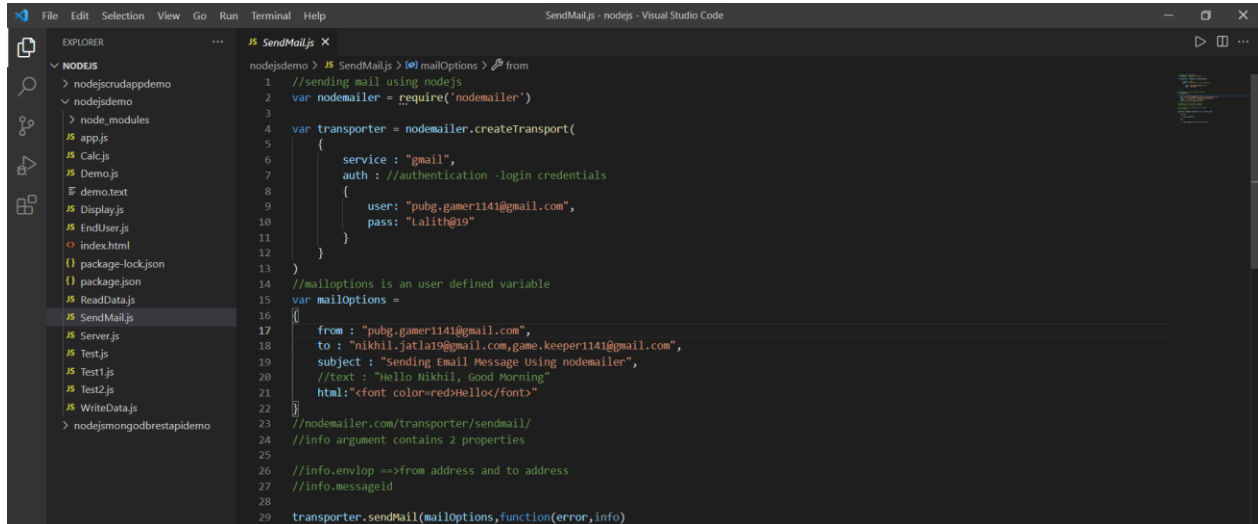


The screenshot shows the Visual Studio Code interface. The Explorer panel on the left displays a project structure with a folder named 'nodejsdemo' containing several files, including 'ReadData.js'. The main editor window shows the content of 'ReadData.js', which is a JavaScript script that reads the content of 'demo.text' and logs it to the console. The Terminal panel at the bottom displays the output of the script: 'PS C:\Users\nikhil\Desktop\2nd Year 1st Sem\VSAD\VSAD Workspace\nodejs\nodejsdemo> node ReadData.js MEAN STACK WEB DEVELOPEMENT'. The status bar at the bottom indicates the file is at line 13, column 2, with 4 spaces, in UTF-8 encoding, CRLF line endings, and JavaScript format.

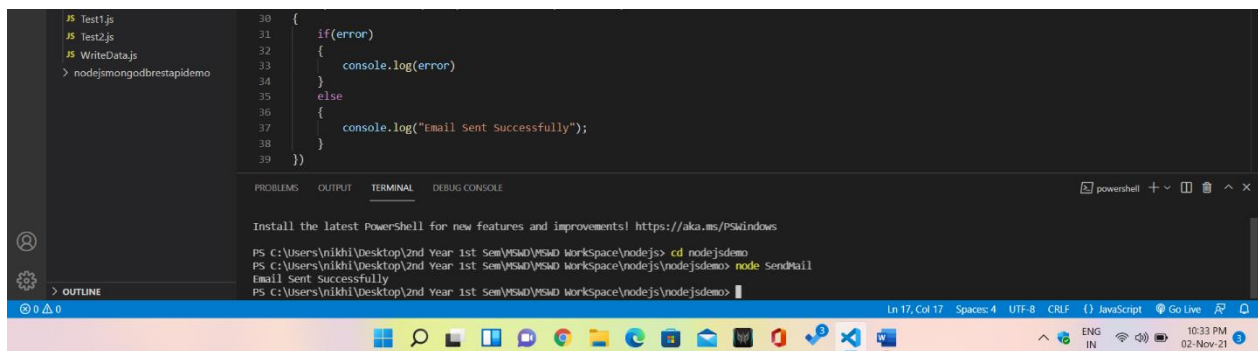
```
nodejsdemo > ReadData.js
1 var fs = require('fs') //fs-file system
2
3 var data="MEAN STACK WEB DEVELOPEMENT"
4
5 fs.readFile("demo.text",data,(err)-> {
6   if(err)
7   {
8     console.log(err)
9   }
10  console.log("Success .... !!")
11 }
12
13
```

```
PS C:\Users\nikhil\Desktop\2nd Year 1st Sem\VSAD\VSAD Workspace\nodejs\nodejsdemo> node ReadData
MEAN STACK WEB DEVELOPEMENT
PS C:\Users\nikhil\Desktop\2nd Year 1st Sem\VSAD\VSAD Workspace\nodejs\nodejsdemo>
```

# SendMail.js:



```
1 //sending mail using nodejs
2 var nodemailer = require('nodemailer')
3
4 var transporter = nodemailer.createTransport({
5   {
6     service : "gmail",
7     auth : //authentication -login credentials
8     {
9       user: "pubg.gamer1141@gmail.com",
10      pass: "lalith@19"
11    }
12   }
13 })
14 //mailOptions is an user defined variable
15 var mailOptions =
16 {
17   from : "pubg.gamer1141@gmail.com",
18   to : "nikhil.jatla19@gmail.com,game.keeper1141@gmail.com",
19   subject : "Sending Email Message Using nodemailer",
20   //text : "Hello Nikhil, Good Morning"
21   html:"<font color=red>Hello</font>"
22 }
23 //nodemailer.com/transporter/sendmail/
24 //info argument contains 2 properties
25
26 //info.envelop ==>from address and to address
27 //info.messageid
28
29 transporter.sendMail(mailOptions,function(error,info)
```

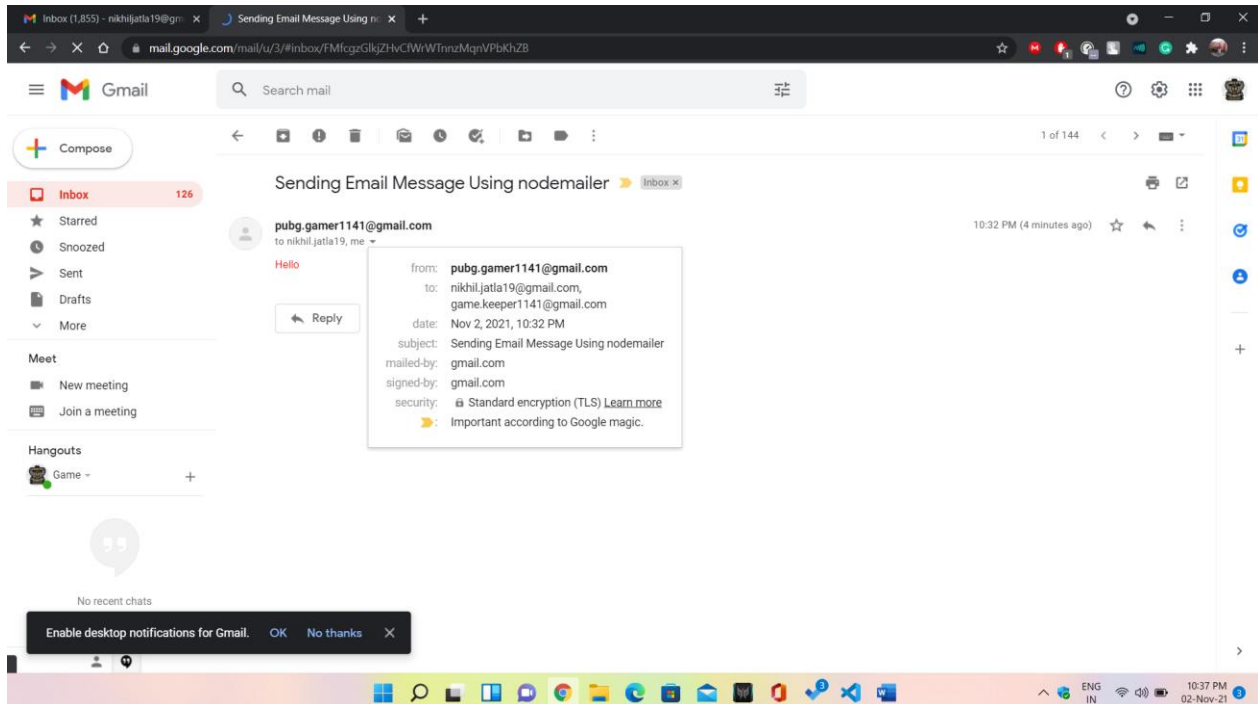


```
30 {
31   if(error)
32   {
33     console.log(error)
34   }
35   else
36   {
37     console.log("Email Sent Successfully");
38   }
39 }
```

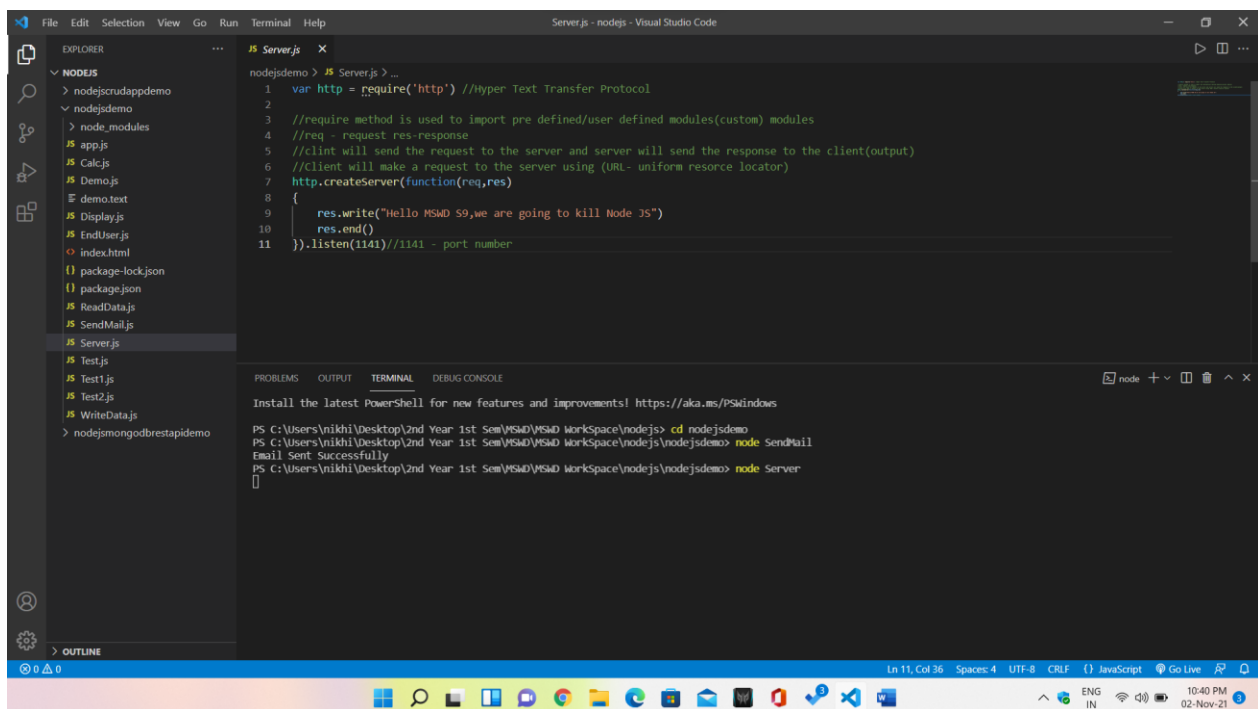
Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```
PS C:\Users\nikhil\Desktop\2nd Year 1st Sem\VSAD\VSAD workspace\nodejs> cd nodejsdemo
PS C:\Users\nikhil\Desktop\2nd Year 1st Sem\VSAD\VSAD workspace\nodejs\nodejsdemo> node SendMail
Email Sent Successfully
PS C:\Users\nikhil\Desktop\2nd Year 1st Sem\VSAD\VSAD workspace\nodejs\nodejsdemo>
```

# Output:



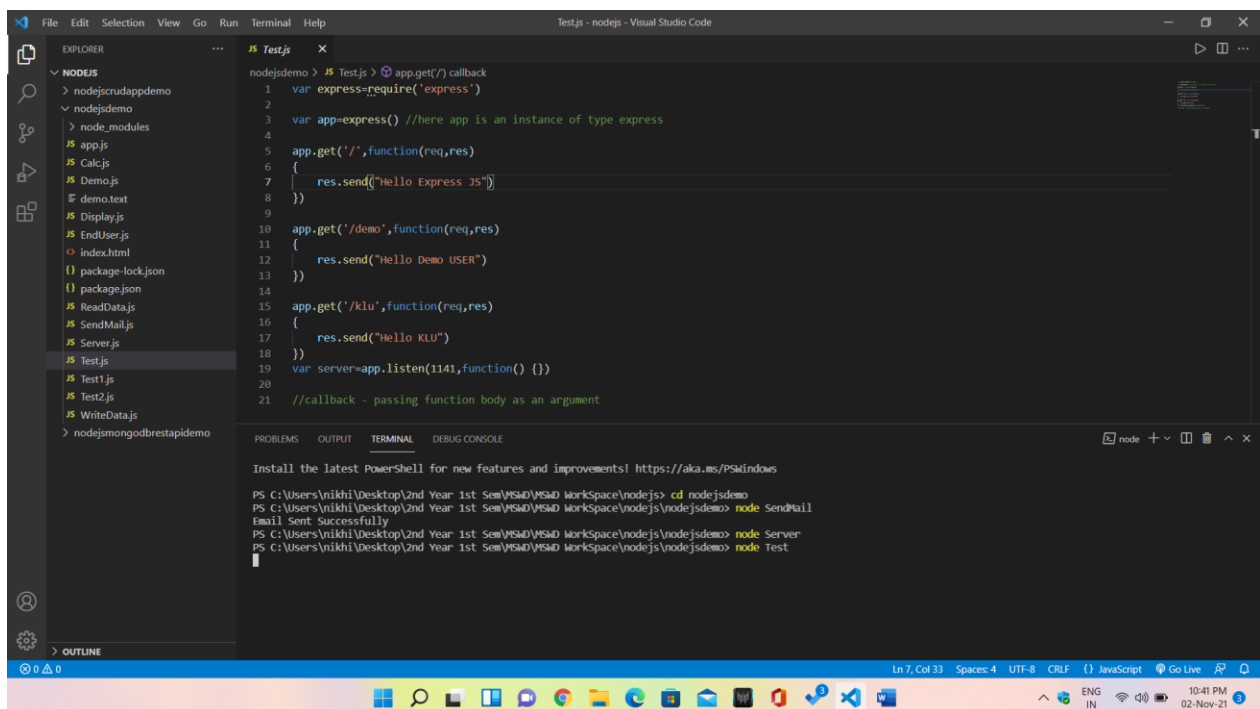
# Server.js:



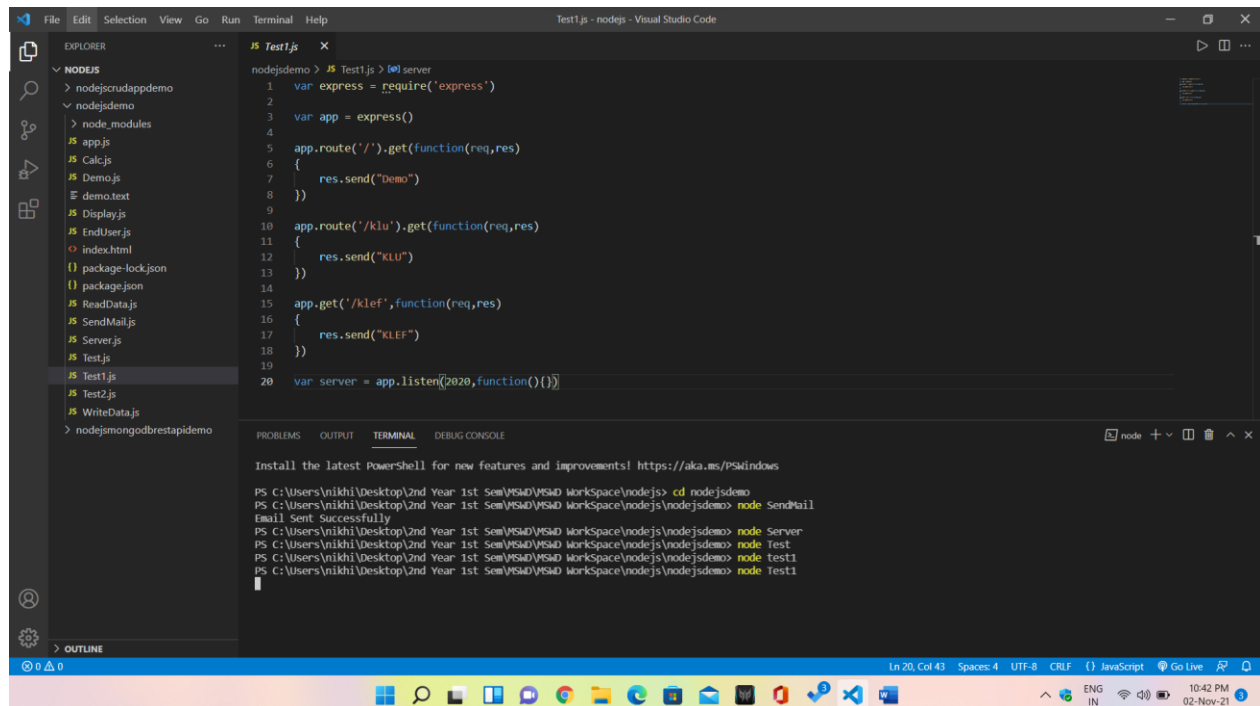
# Output:



# Test.js:



# Test1.js:



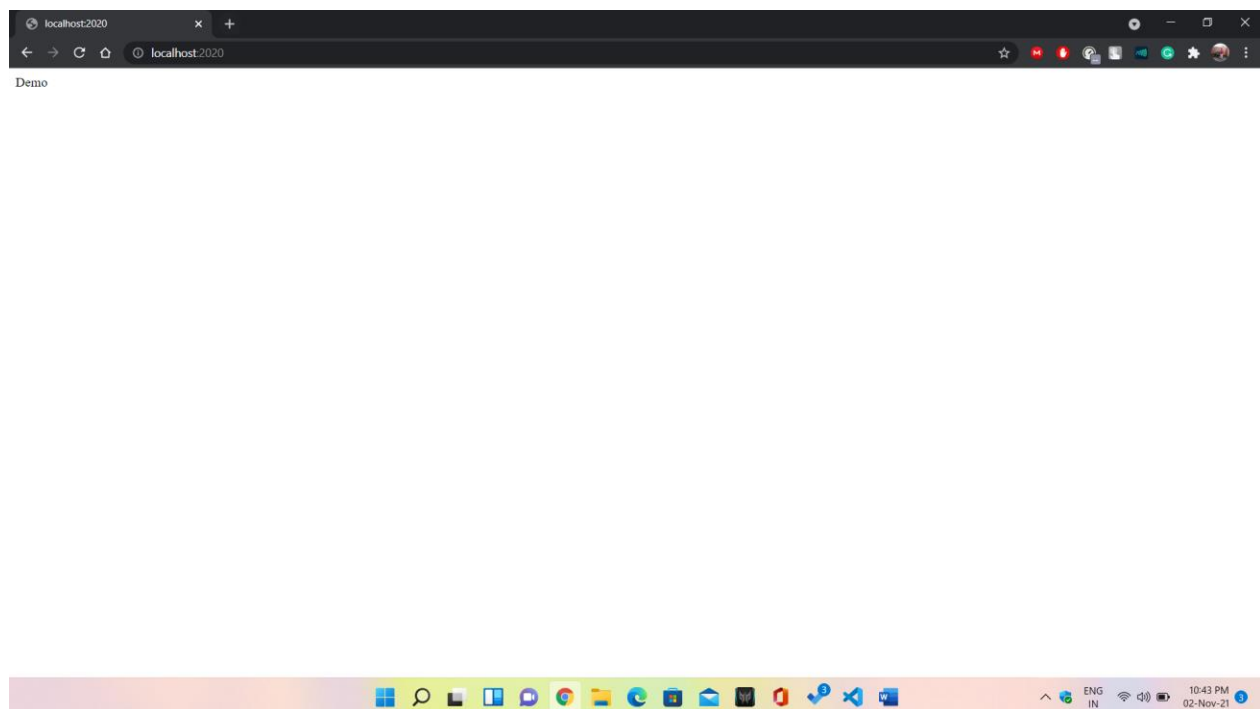
The screenshot shows the Visual Studio Code editor with the file `Test1.js` open. The file contains the following code:

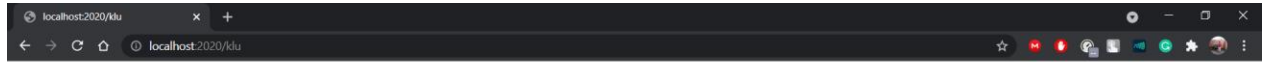
```
1 var express = require('express')
2
3 var app = express()
4
5 app.route('/').get(function(req,res)
6 {
7     res.send("Demo")
8 })
9
10 app.route('/klu').get(function(req,res)
11 {
12     res.send("KLU")
13 })
14
15 app.get('/klef', function(req,res)
16 {
17     res.send("KLEF")
18 })
19
20 var server = app.listen(2020,function(){})
```

The terminal output shows the following commands and results:

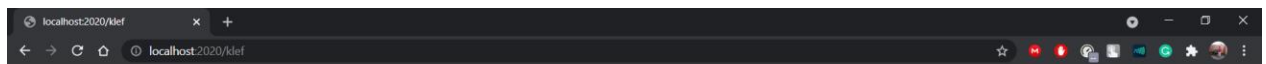
```
nodejsdemo > PS Test1.js > server
PS C:\Users\nikhi\Desktop\2nd Year 1st Sem\VSAD\VSAD workspace\nodejs> cd nodejsdemo
PS C:\Users\nikhi\Desktop\2nd Year 1st Sem\VSAD\VSAD workspace\nodejs\nodejsdemo> node SendMail
Email Sent Successfully
PS C:\Users\nikhi\Desktop\2nd Year 1st Sem\VSAD\VSAD workspace\nodejs\nodejsdemo> node Server
PS C:\Users\nikhi\Desktop\2nd Year 1st Sem\VSAD\VSAD workspace\nodejs\nodejsdemo> node Test
PS C:\Users\nikhi\Desktop\2nd Year 1st Sem\VSAD\VSAD workspace\nodejs\nodejsdemo> node test1
PS C:\Users\nikhi\Desktop\2nd Year 1st Sem\VSAD\VSAD workspace\nodejs\nodejsdemo> node Test1
```

# Output:





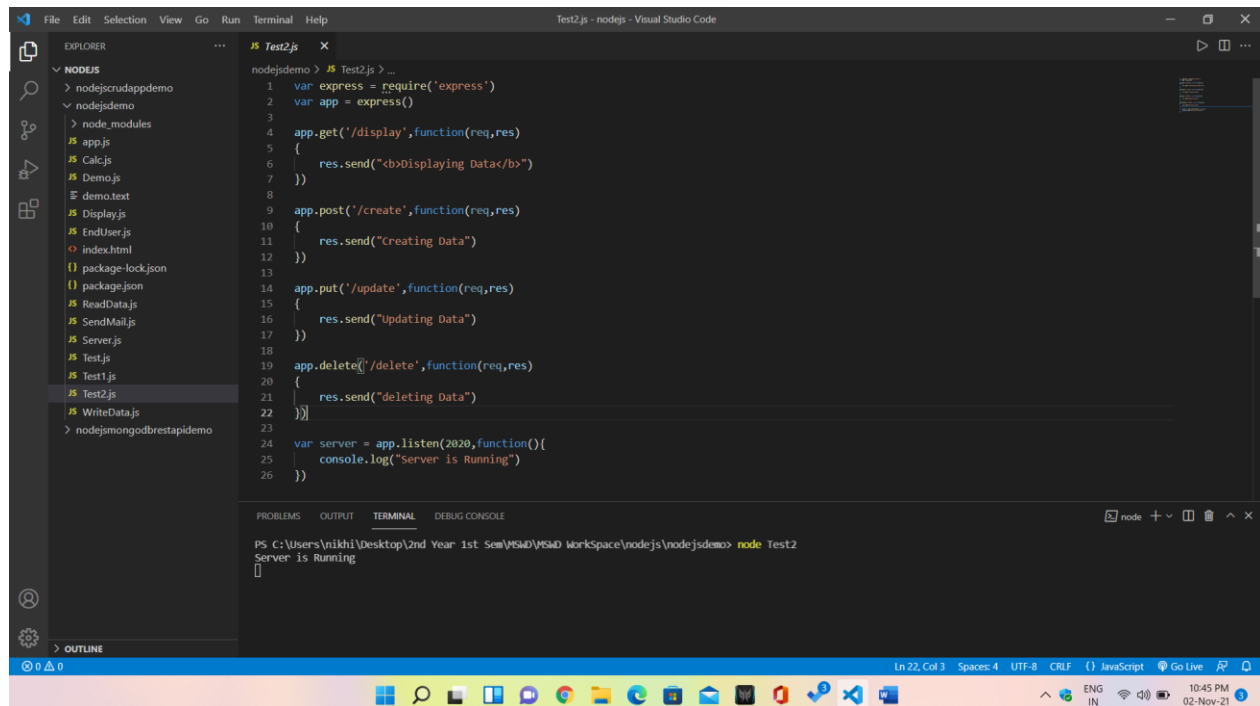
KLU



KLEF



# Test2.js:



The screenshot shows the Visual Studio Code editor with the file explorer on the left. The file explorer shows a project structure with a 'nodejsdemo' folder containing several files, including 'Test2.js'. The main editor window displays the code for 'Test2.js', which is a Node.js script using Express.js to create a simple web server. The code includes routes for GET, POST, PUT, and DELETE requests. The terminal at the bottom shows the command 'node Test2' being executed, and the output 'Server is Running'.

```
1 var express = require('express')
2 var app = express()
3
4 app.get('/display',function(req,res)
5 {
6   res.send("<b>Displaying Data</b>")
7 })
8
9 app.post('/create',function(req,res)
10 {
11   res.send("Creating Data")
12 })
13
14 app.put('/update',function(req,res)
15 {
16   res.send("Updating Data")
17 })
18
19 app.delete('/delete',function(req,res)
20 {
21   res.send("Deleting Data")
22 })
23
24 var server = app.listen(2020,function(){
25   console.log("Server is Running")
26 })
```

PS C:\Users\nikhi\Desktop\2nd Year 1st Sem\MS&O\MS&O Workspace\nodejs\nodejsdemo> node Test2  
Server is Running

# Output:

