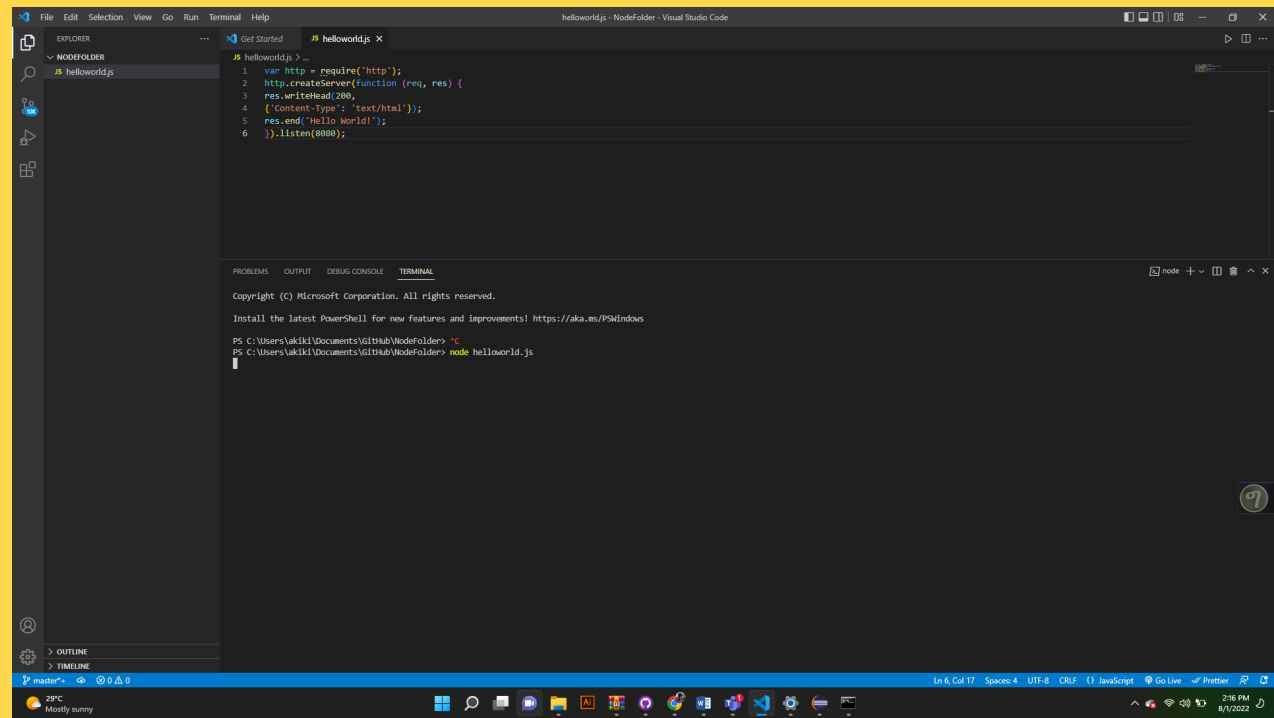


Exercise N1



The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left shows a file named `helloworld.js` under a `NODEFOLDER`. The main editor area displays the content of `helloworld.js`:

```
1 var http = require('http');
2 http.createServer(function (req, res) {
3   res.writeHead(200,
4     { 'Content-Type': 'text/html' });
5   res.end('Hello World!');
6 }).listen(8080);
```

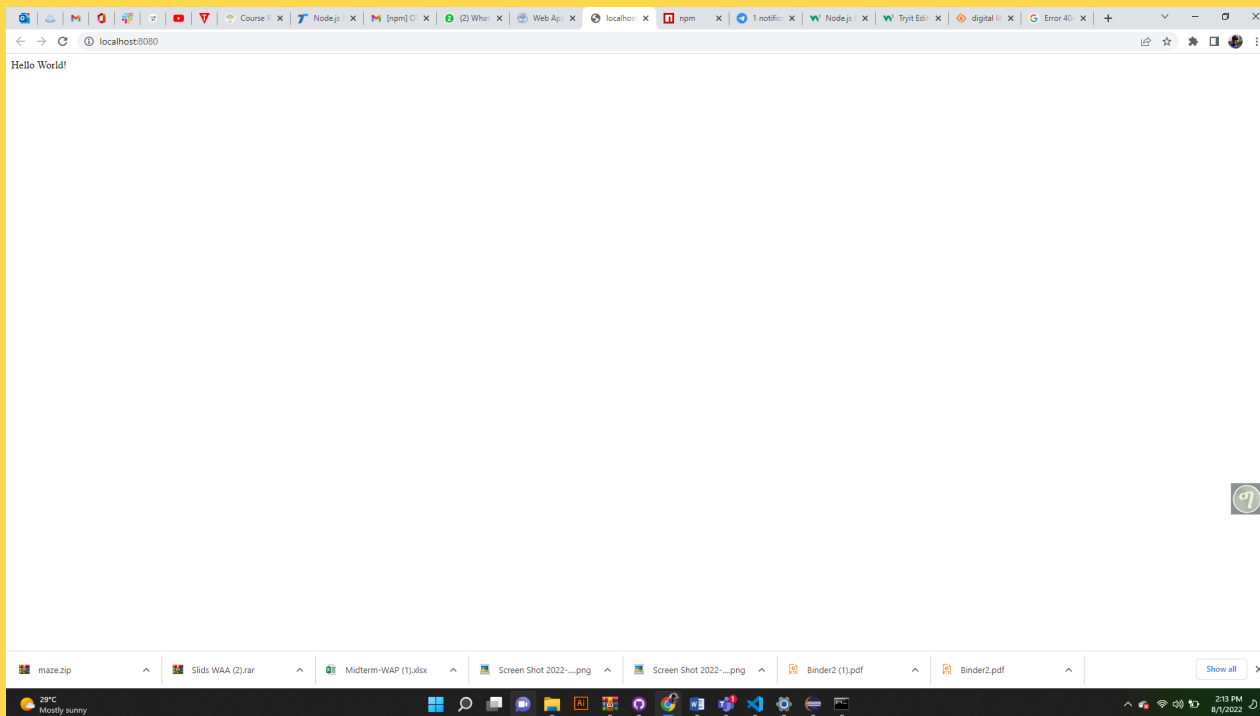
Below the editor is the TERMINAL panel. It shows the following text:

```
Copyright (C) Microsoft Corporation. All rights reserved.

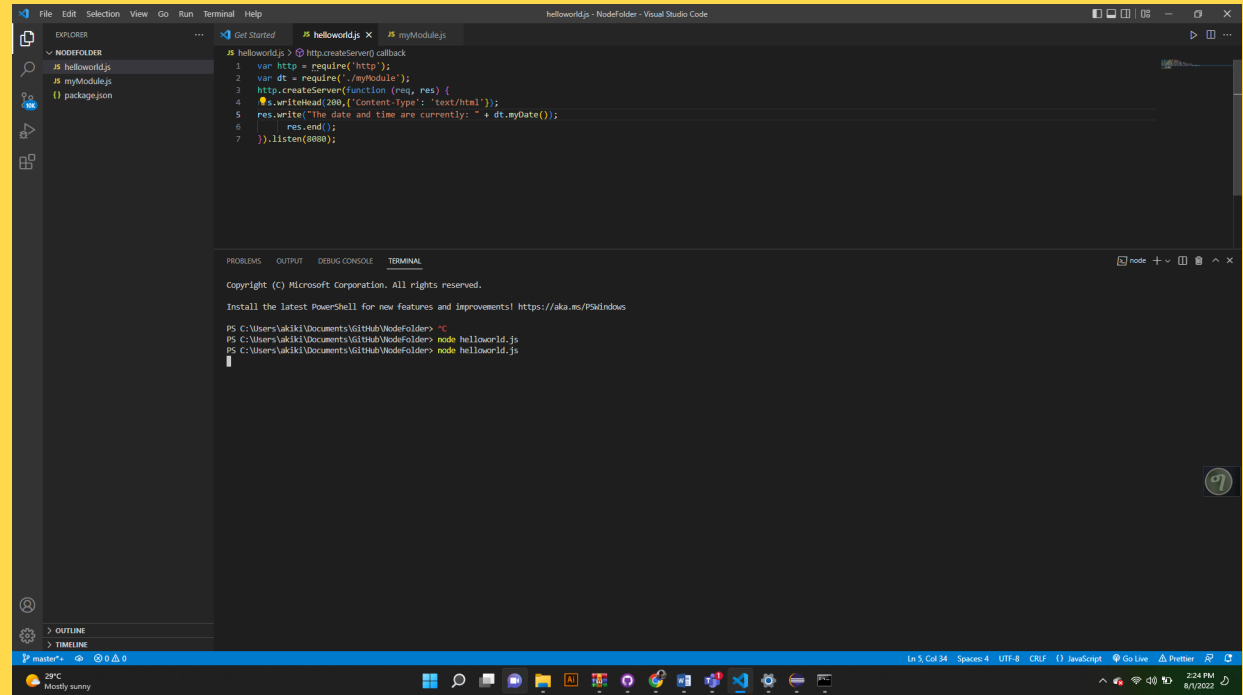
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\vakiki\Documents\Github\NodeFolder> node helloworld.js
```

The status bar at the bottom indicates the file is `helloworld.js`, line 6, column 17, with 4 spaces, UTF-8 encoding, and CRLF line endings. The system tray at the bottom shows the date and time as 2:16 PM on 8/9/2022.



Exercise N2

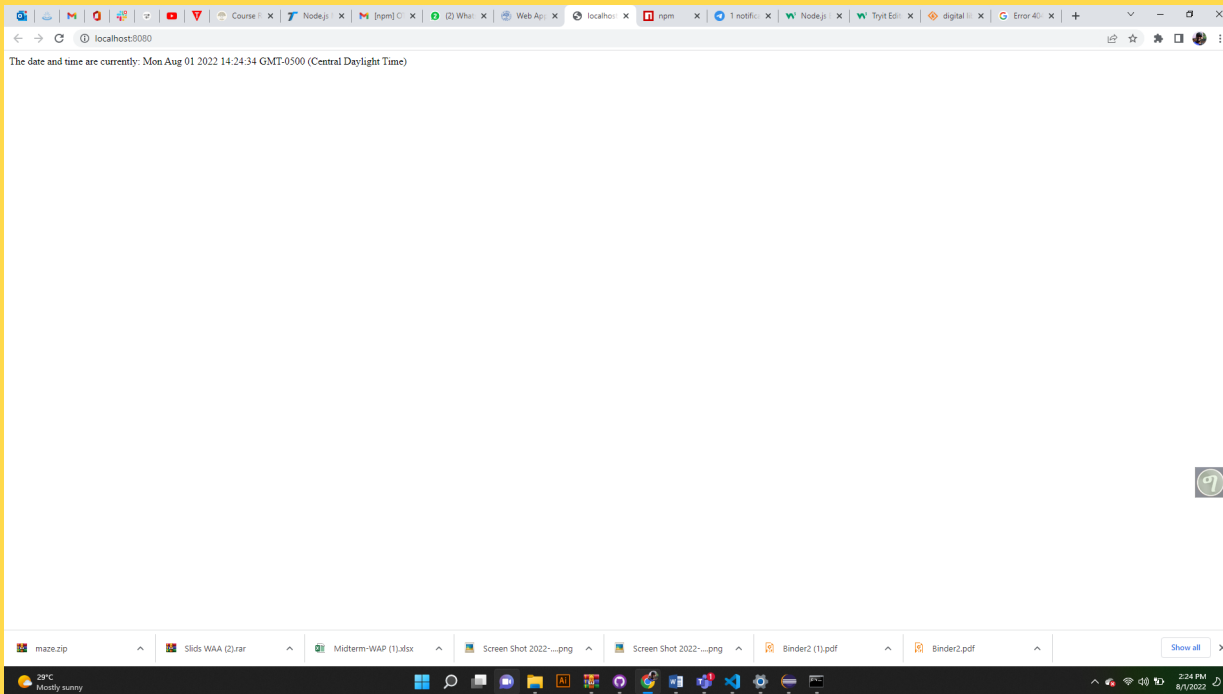


```
File Edit Selection View Go Run Terminal Help
hellonworld.js - NodeFolder - Visual Studio Code

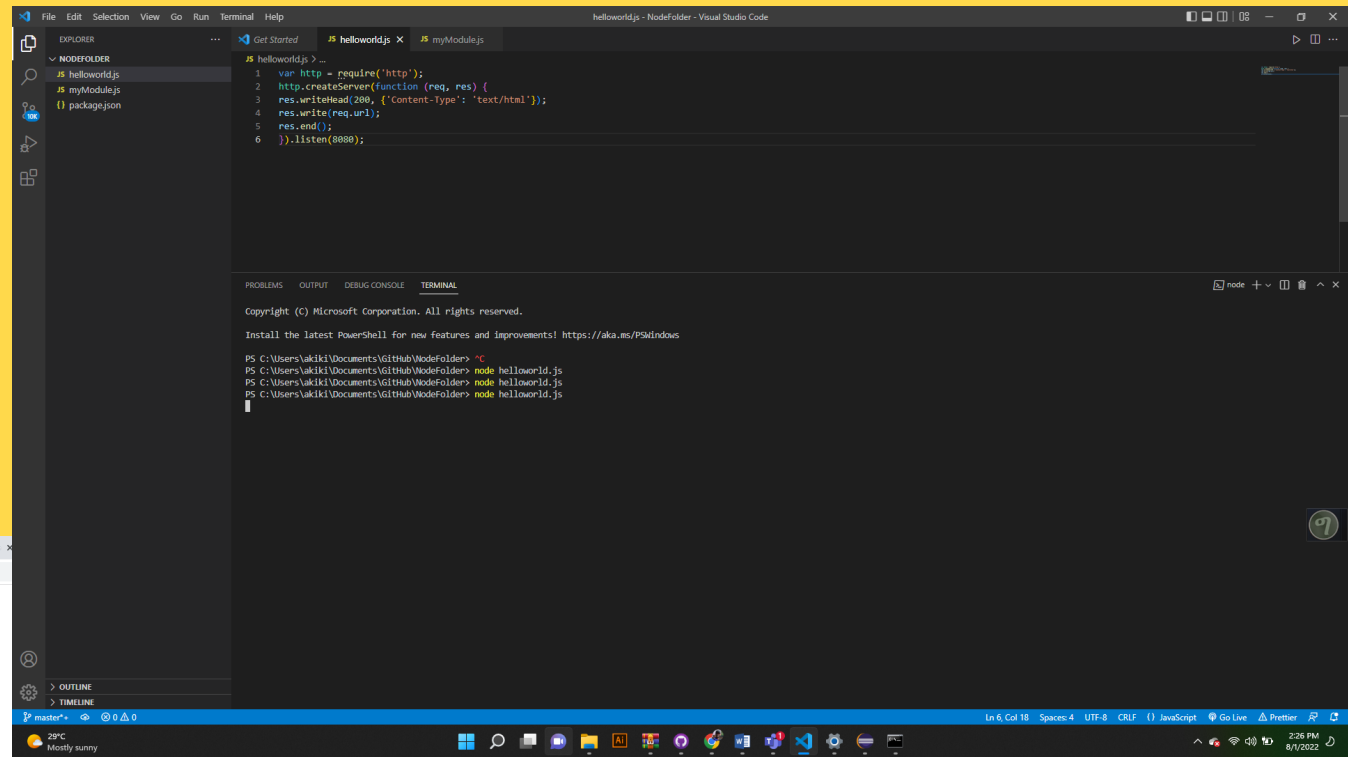
EXPLORER
  NODEFOLDER
    hellonworld.js
    myModule.js
    package.json

myModule.js
1 http.createServer() callback
2 var http = require('http');
3 var dt = require('./myModule');
4 http.createServer(function (req, res) {
5   res.writeHead(200, {'Content-Type': 'text/html'});
6   res.write("The date and time are currently: " + dt.myDate());
7   res.end();
8 }).listen(8080);

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\vakiki\Documents\Github\NodeFolder> node hellonworld.js
PS C:\Users\vakiki\Documents\Github\NodeFolder> node hellonworld.js
PS C:\Users\vakiki\Documents\Github\NodeFolder> node hellonworld.js
```



Exercise N3

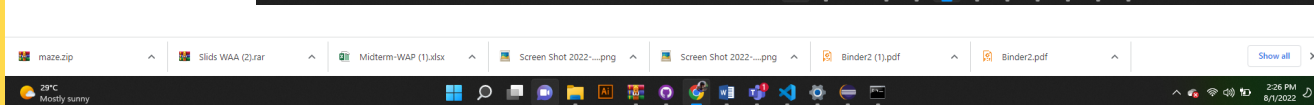
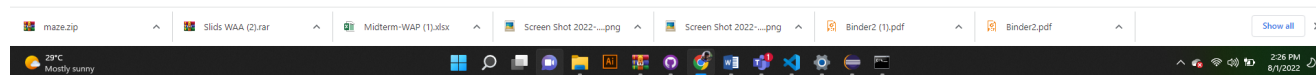
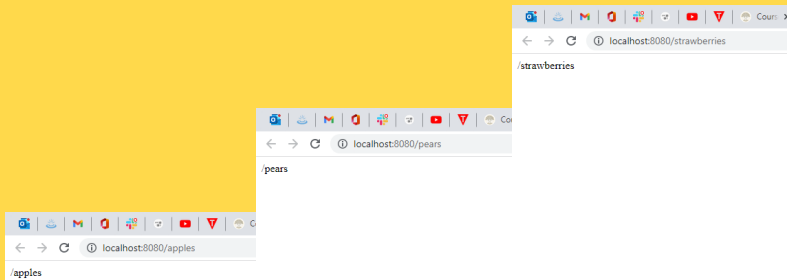


The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays a project structure with a 'NODEFOLDER' containing 'helloworld.js' and 'myModule.js'. The main editor area shows the content of 'helloworld.js', which is a simple HTTP server using the 'http' module. The terminal window at the bottom shows the command 'node helloworld.js' being executed, resulting in a 'Copyright (c) Microsoft Corporation. All rights reserved.' message and a link to the latest PowerShell updates.

```
helloworld.js > ...
1 var http = require('http');
2 http.createServer(function (req, res) {
3   res.writeHead(200, {'Content-Type': 'text/html'});
4   res.write(req.url);
5   res.end();
6 }).listen(8080);
```

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

PS C:\Users\vakiki\Documents\GitHub\NodeFolder> ^C
PS C:\Users\vakiki\Documents\GitHub\NodeFolder> node helloworld.js
PS C:\Users\vakiki\Documents\GitHub\NodeFolder> node helloworld.js
PS C:\Users\vakiki\Documents\GitHub\NodeFolder> node helloworld.js



Exercise N4

The image shows a web browser window and a Visual Studio Code editor. The browser window displays a simple web form with the title "SimpleAdder.html". The form has a label "Enter two numbers" and two input fields. The first input field contains the number "200" and the second input field contains the number "400". Below the input fields is a "Click" button. The browser's address bar shows the URL "localhost:8080/SimpleAdder.html".

The Visual Studio Code editor is open to a file named "AdderWebServer.js". The code is a Node.js script that uses the "http" module to create a web server. It listens on port 8888 and handles requests to the "/add" endpoint. The code reads the query parameters from the URL and calculates the sum of the two numbers. The result is then sent back to the client as a JSON object.

```
1 var http = require('http');
2 var url = require('url');
3 var fs = require('fs');
4 var addmod = require('./addmod.js');
5 http.createServer(function (req, res) {
6   var q = url.parse(req.url, true);
7   var filename = "." + q.pathname;
8   if (q.pathname === "/add.js")
9     addmod.add(req, res, q.query);
10  } else
11    fs.readFile(filename, function(err, data) {
12      if (err) {
13        res.writeHead(404, {'Content-Type': 'text/html'});
14        return res.end("404 Not Found");
15      }
16      res.writeHead(200); // Content-Type not included
17      res.write(data);
18      return res.end();
19    });
20  }).listen(8888);
```

The VS Code interface shows the Explorer sidebar on the left with a file tree containing "AdderWebServer.js", "addmod.js", "helloworld.js", "myModule.js", "package.json", and "SimpleAdder.html". The Output and Debug Console panels are visible at the bottom of the editor.

The Windows taskbar at the bottom shows the system clock as 2:37 PM on 8/7/2022. The taskbar also displays several open applications, including a file explorer, a terminal, and a web browser.