Experiment 3:

a. Write a program to check request header for cookies.

b. Write node.js program to print the car object properties, delete the second property and get length of the object.

a. Write a program to check request header for cookies.

Step 1: Write the code in VS code and save the file as cookies.js

Step 2: Nodejs is required to run JavaScript code outside of a web browser. If Nodejs is not installed in your system you need to install it by visiting the official Node.js website (nodejs.org) and download the appropriate installer for your operating system (Windows, macOS, or Linux). After installation, open a terminal or command prompt and type node -v and npm -v. If Node.js and npm (Node Package Manager) are installed correctly, you'll see their version numbers.

Step 3: Open Terminal in VS code and navigate to the directory where the file cookies.js is located

Step 4 : Run the code in the terminal as node cookies.js

You should see the following output in the terminal:

Server running at http://localhost:3000/

Step 5:

- To test the server, Open a web browser (like Chrome, Firefox, or Edge).
- Go to the URL http://localhost:3000/.
- You should see the message "Check console for cookies information." in the browser.

Step 6 :

- To test the cookie handling, you need to send a request with cookies. To Add Cookies to the Request:

- Using Browser Developer Tools:
    - Open the developer tools in your browser (usually by pressing F12).
    - Go to the "Application" or "Storage" tab.
    - In the "Cookies" section, you can add a cookie for localhost:3000.
    - Refresh the http://localhost:3000

- Now, look back at the terminal where you ran the Nodejs code. You'll see the request headers printed, and if there are cookies, you'll see cookies listed.

```
const http = require("http");
// Create a server
const server = http.createServer((req, res) =>
{
    const headers = req.headers;  // Get request headers
    console.log(headers, ".....");
     // Check if 'cookie' header exists
     if (headers.cookie)
     {
        console.log("Cookies:", headers.cookie);
     }
    else
    {
        console.log("No cookies found in the request header.");
    }
     res.end("Check console for cookies information.");
```

});

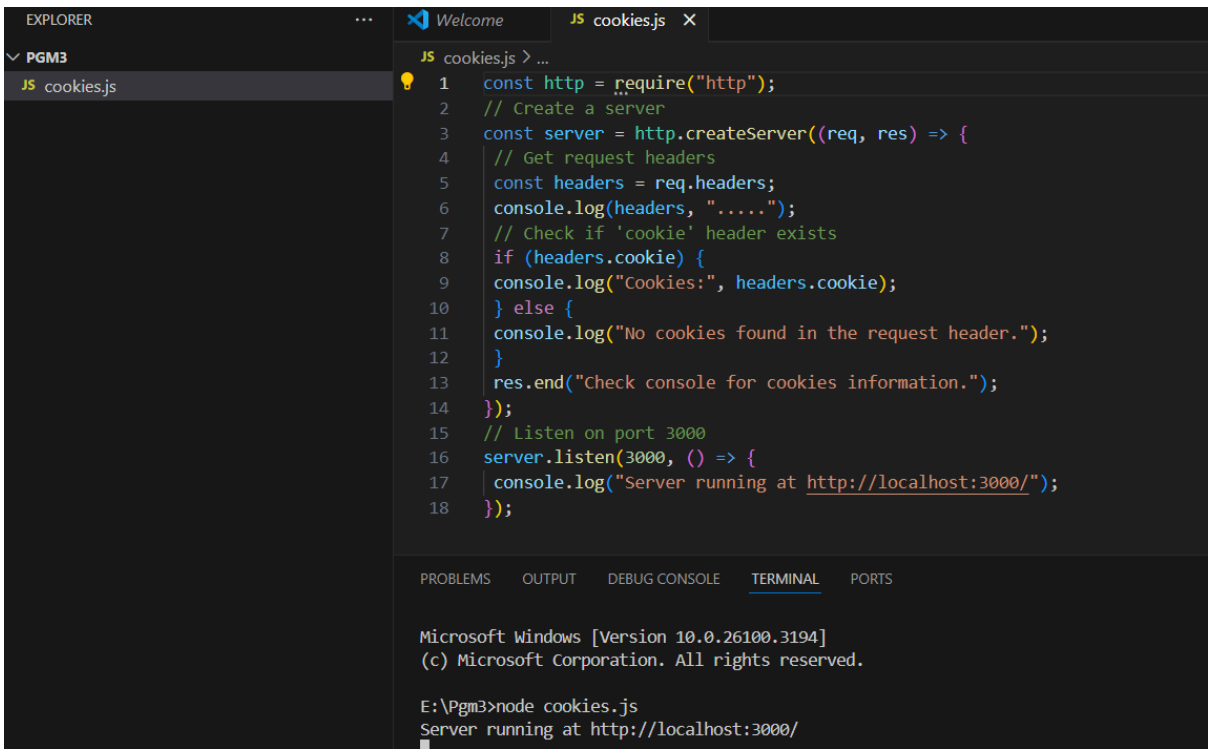
// Listen on port 3000

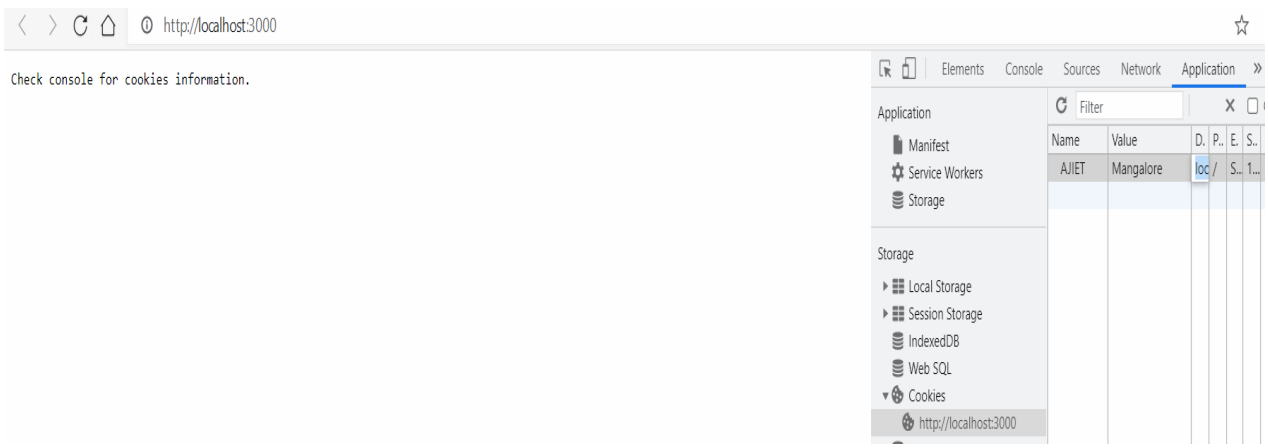
server.listen(3000, ( ) =>

{

console.log("Server running at http://localhost:3000/");

});





After Refreshing,

b. Write node.js program to print the car object properties, delete the second property and get length of the object.

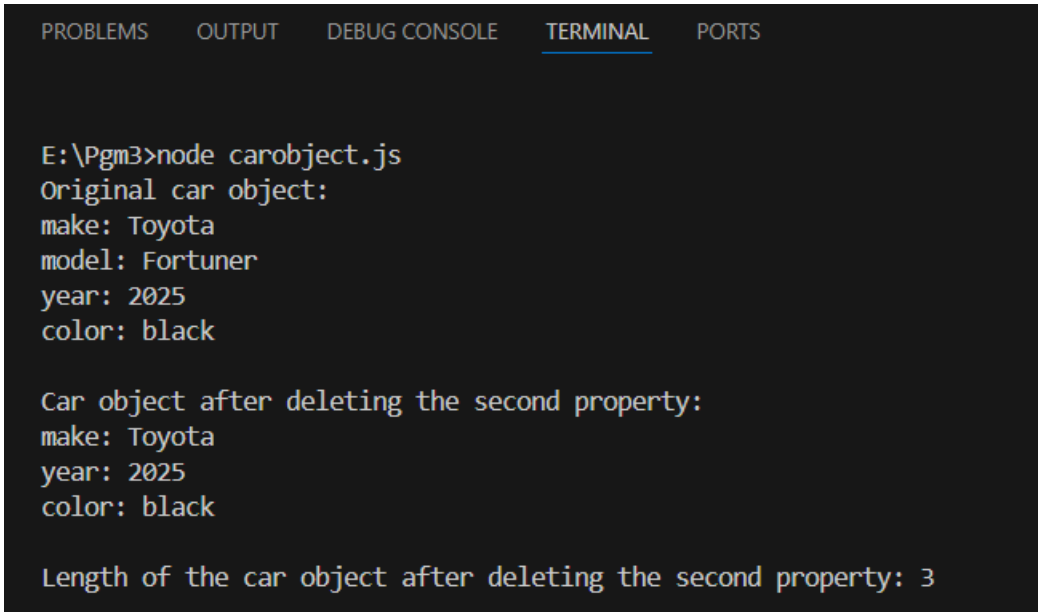
Step 1: Write the code in VS code and save the file as carObject.js

Step 2: Nodejs is required to run JavaScript code outside of a web browser. If Nodejs is not installed in your system you need to install it by visiting the official Node.js website (nodejs.org) and download the appropriate installer for your operating system (Windows, macOS, or Linux). After installation, open a terminal or command prompt and type node -v and npm -v. If Node.js and npm (Node Package Manager) are installed correctly, you'll see their version numbers.

Step 3: Open Terminal in VS code and navigate to the directory where the file carObject.js is located

Step 4 : Run the code in the terminal as node carObject.js

You should see the following output in the terminal:




```
// Define a car object
const car = {
                    make: 'Toyota',
                    model: 'Fortuner',
                    year: 2025,
                   color: 'black'
};
// Print the properties of the car object
console.log('Original car object:');
for (const property in car)
{
 console.log(`${property}: ${car[property]}`);
}
// Delete the second property
const secondProperty = Object.keys(car)[1];
delete car[secondProperty];
```

```
console.log('\nCar object after deleting the second property:');

for (const property in car)

{

 console.log(`${property}: ${car[property]}`);

}

// Get the length of the object

const length = Object.keys(car).length;

console.log(`\nLength of the car object after deleting the second property: ${length}`);
```