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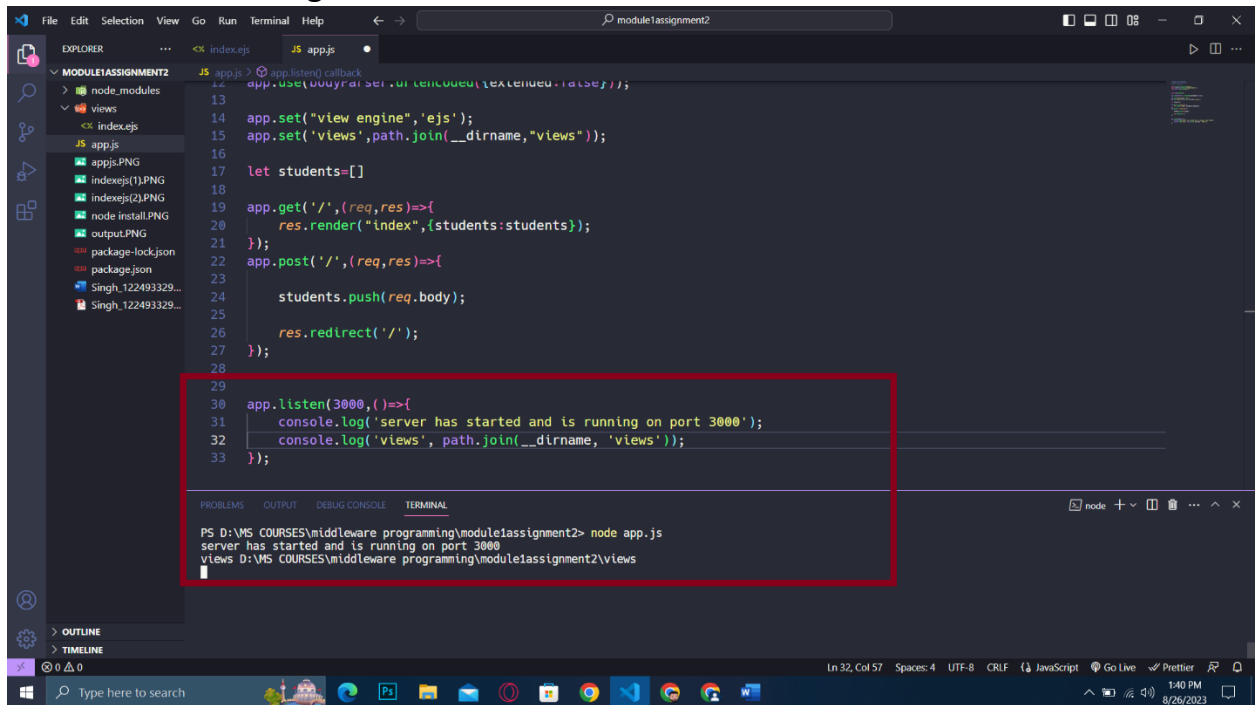
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Assignment: Module 1: Lab, Application Debugging Techniques

Date:8/26/2023

1) Debugging with Terminal:

➤ Insert console.log Statements:



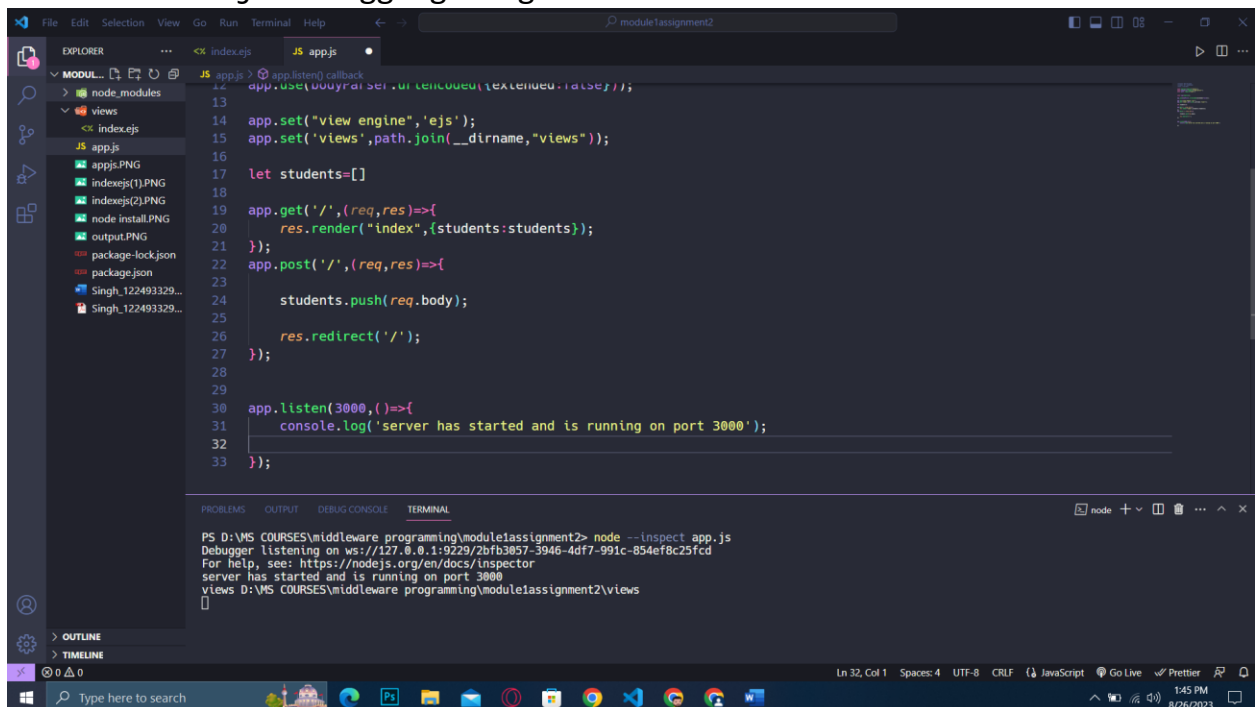
The screenshot shows a VS Code editor with a file explorer on the left, a code editor in the center, and a terminal at the bottom. The code editor displays a file named `app.js` with the following content:

```
1 app.listen() callback
2 app.use(bodyParser.urlencoded({extended:false}));
3
4
5
6
7
8
9
10
11
12
13
14 app.set("view engine","ejs");
15 app.set('views',path.join(__dirname,"views"));
16
17 let students=[]
18
19 app.get('/',(req,res)=>{
20   res.render("index",{students:students});
21 });
22 app.post('/',(req,res)=>{
23
24   students.push(req.body);
25
26   res.redirect('/');
27 });
28
29
30 app.listen(3000,()=>{
31   console.log('server has started and is running on port 3000');
32   console.log('views', path.join(__dirname, 'views'));
33 });
```

The terminal at the bottom shows the command `node app.js` and the output:

```
PS D:\MS COURSES\middleware programming\module1assignment2> node app.js
server has started and is running on port 3000
views D:\MS COURSES\middleware programming\module1assignment2\views
```

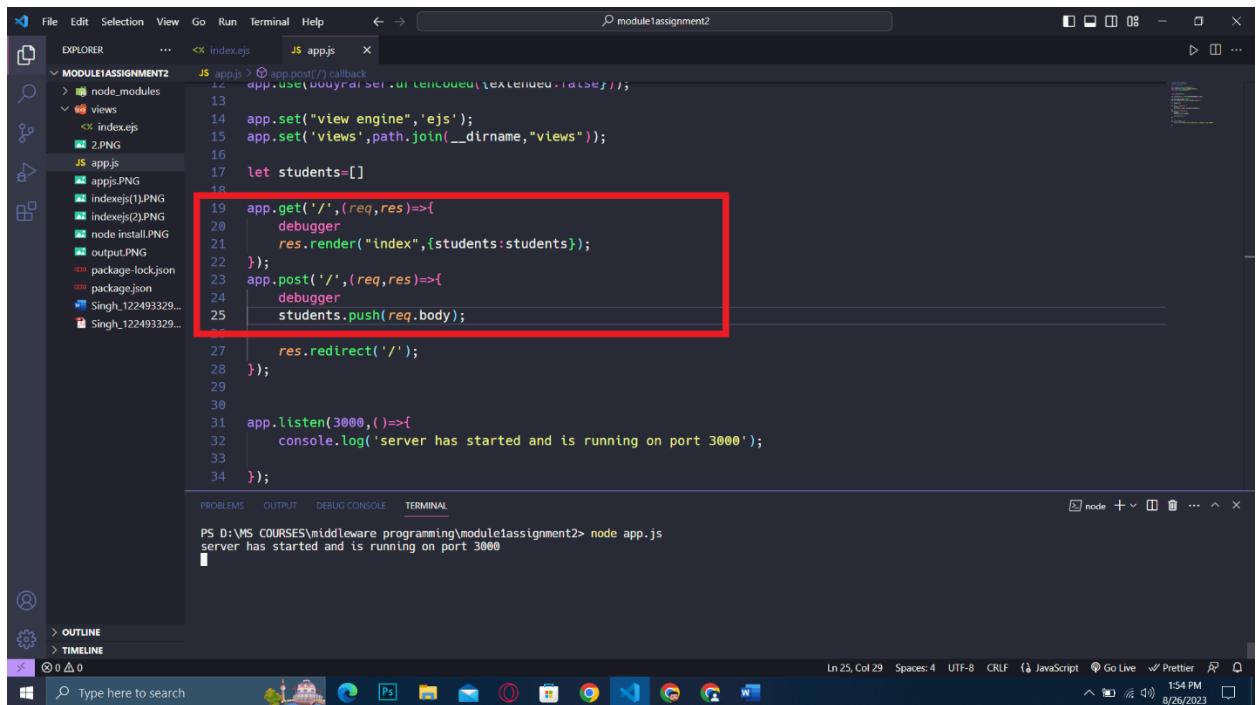
➤ Utilize Node.js Debugging Flags:



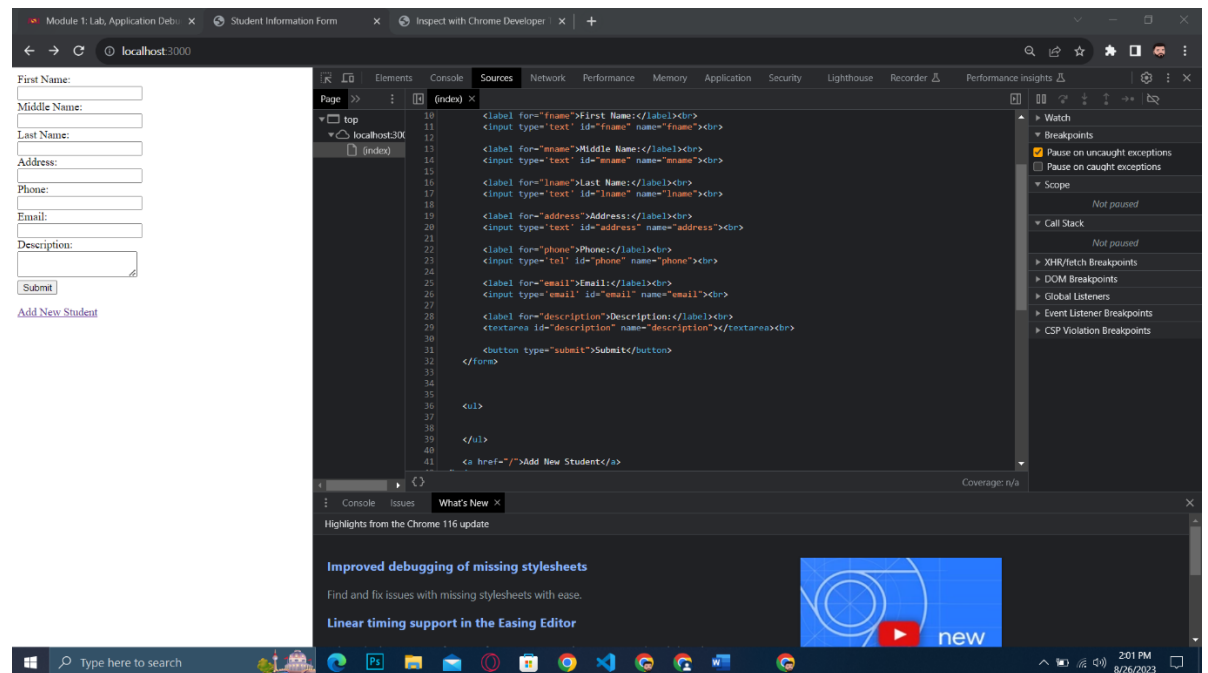
The screenshot shows a VS Code editor with a file explorer on the left, a code editor in the center, and a terminal at the bottom. The code editor displays the same `app.js` file as in the previous screenshot. The terminal at the bottom shows the command `node --inspect app.js` and the output:

```
PS D:\MS COURSES\middleware programming\module1assignment2> node --inspect app.js
Debugger listening on ws://127.0.0.1:9229/2bf03857-3946-4d77-991c-854ef8c25fcd
For help, see: https://nodejs.org/en/docs/inspector
server has started and is running on port 3000
views D:\MS COURSES\middleware programming\module1assignment2\views
```

➤ Set Breakpoints:

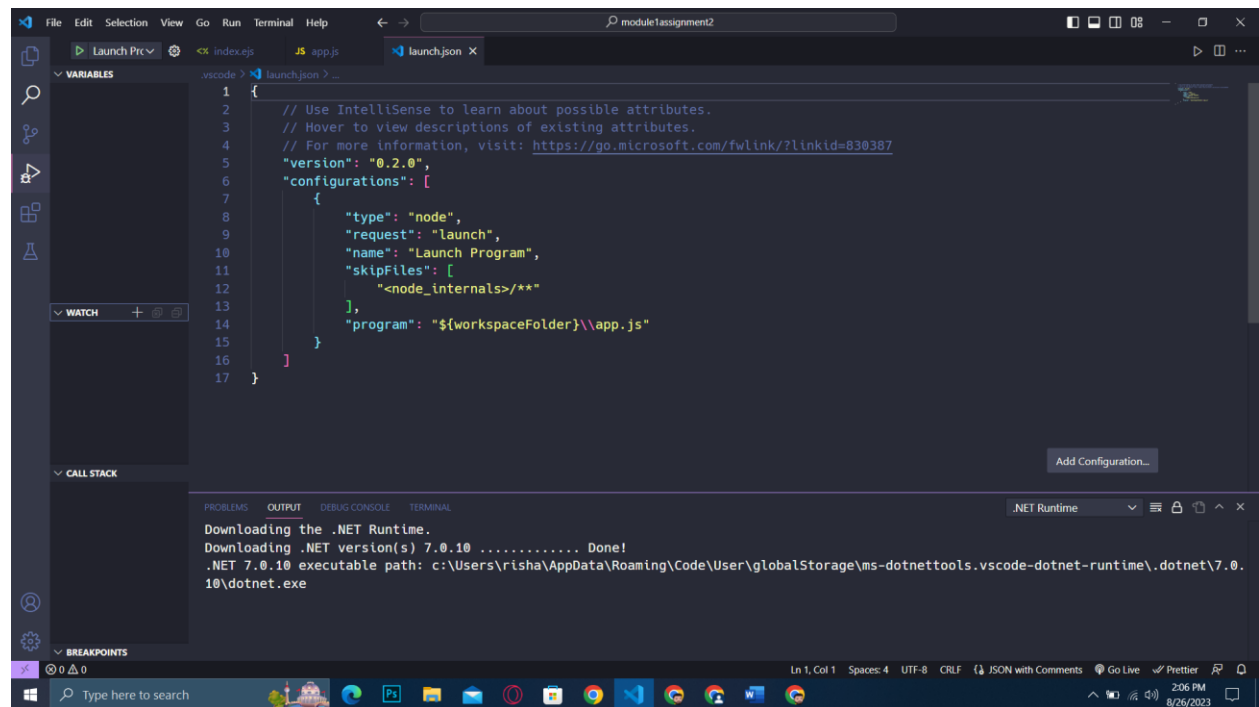


➤ Debugging in Chrome:

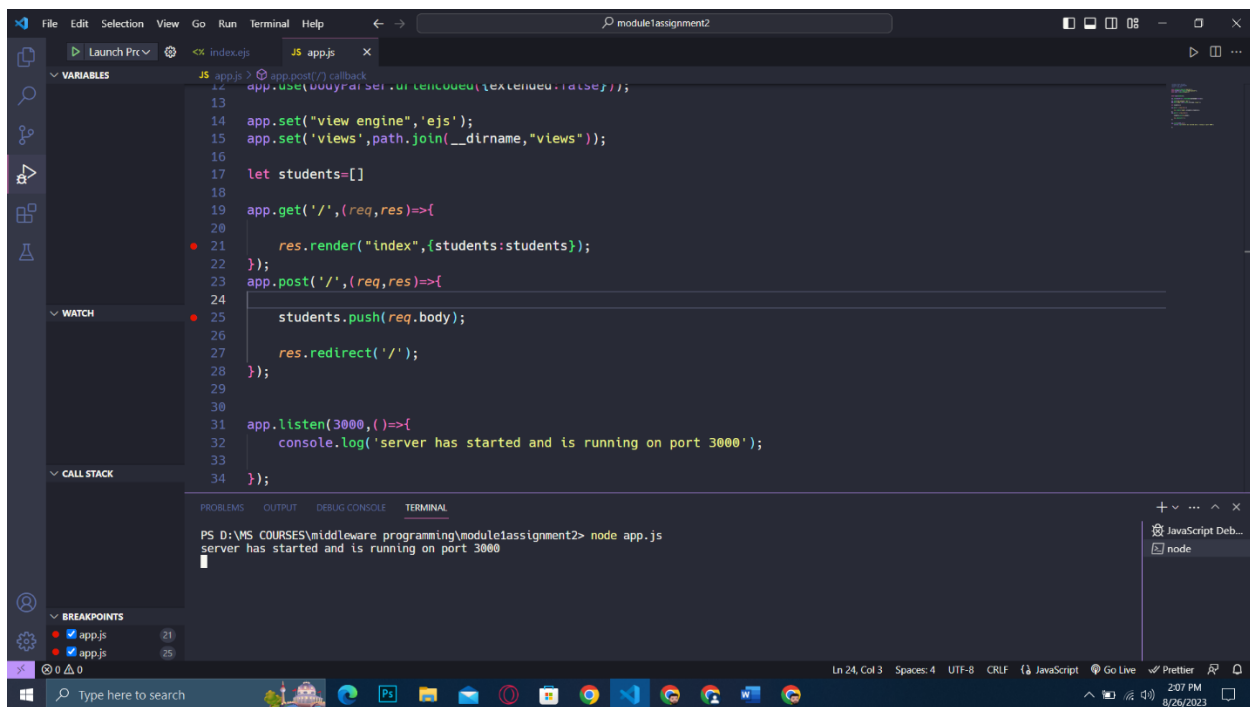


2) Debugging with Visual Studio Code:

➤ Launch Configuration:



➤ Setting Breakpoints:



➤ Inspecting Variables:

