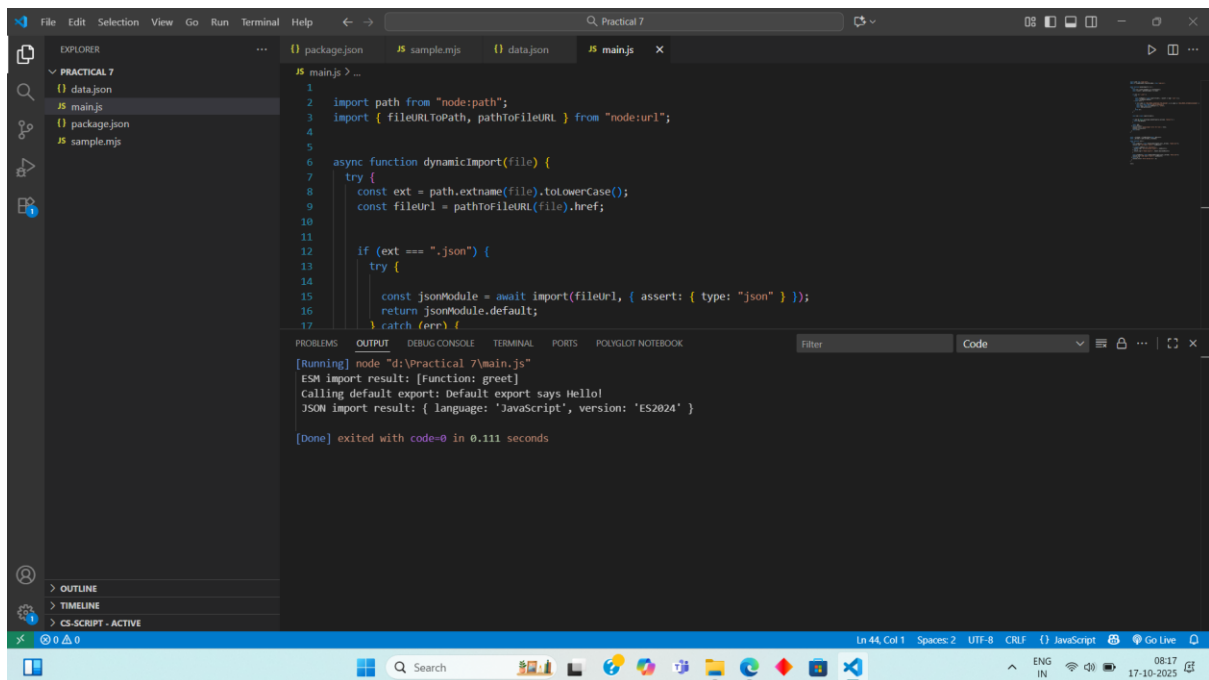


Practical 7-



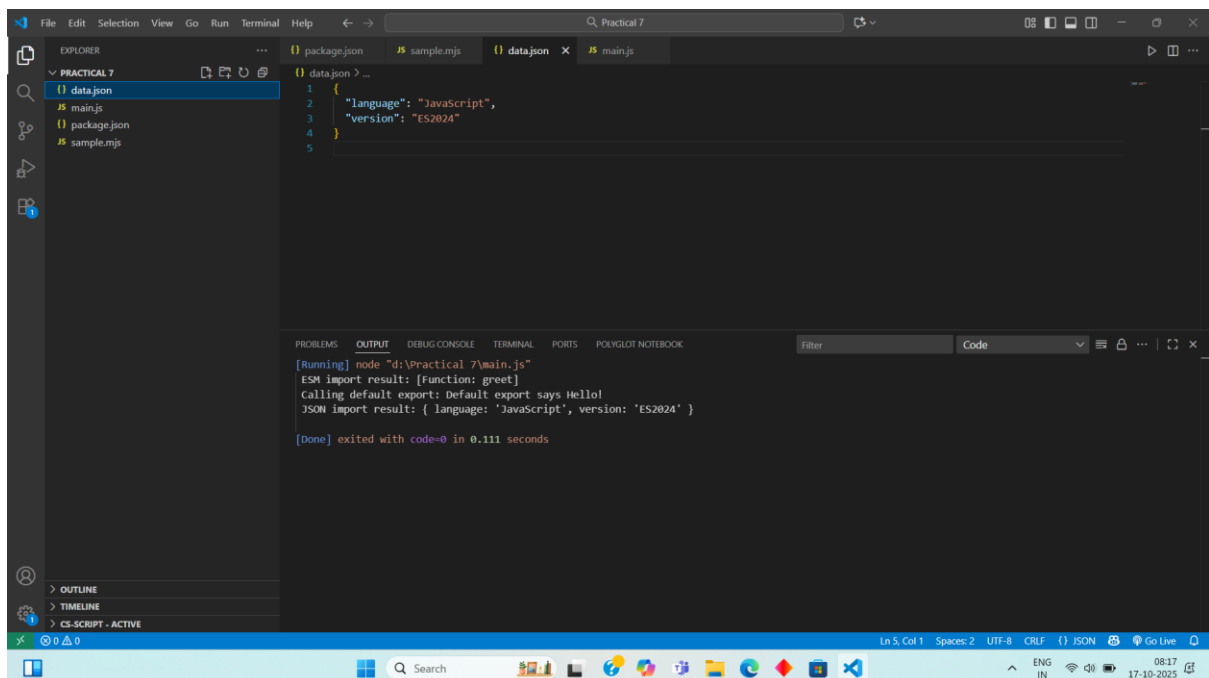
This screenshot shows the VS Code editor with the `main.js` file open. The code implements a `dynamicImport` function that uses `import()` to load modules dynamically. The `data.json` file is also visible in the Explorer. The Output console shows the results of running the code.

```
1 // main.js > ...
2 import path from "node:path";
3 import { fileURLToPath, pathToFileURL } from "node:url";
4
5
6 async function dynamicImport(file) {
7   try {
8     const ext = path.extname(file).toLowerCase();
9     const fileUrl = pathToFileURL(file).href;
10
11     if (ext === ".json") {
12       try {
13         const jsonModule = await import(fileUrl, { assert: { type: "json" } });
14         return jsonModule.default;
15       } catch (err) {
16         // ...
17       }
18     }
19   }
20 }
```

Output console:

```
[Running] node "d:\Practical 7\main.js"
ESM import result: [Function: greet]
Calling default export: Default export says Hello!
JSON import result: { language: 'JavaScript', version: 'ES2024' }

[Done] exited with code=0 in 0.111 seconds
```



This screenshot shows the VS Code editor with the `data.json` file open. The file contains a JSON object with `language` and `version` properties. The Output console shows the results of running the code, which matches the previous screenshot.

```
1 {
2   "language": "JavaScript",
3   "version": "ES2024"
4 }
5
```

Output console:

```
[Running] node "d:\Practical 7\main.js"
ESM import result: [Function: greet]
Calling default export: Default export says Hello!
JSON import result: { language: 'JavaScript', version: 'ES2024' }

[Done] exited with code=0 in 0.111 seconds
```

This screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a project named 'PRACTICAL 7' with files 'data.json', 'main.js', 'package.json', and 'sample.mjs'. The 'package.json' file is selected and its content is visible in the editor:

```
1 {  
2   "name": "dynamic-import-demo",  
3   "version": "1.0.0",  
4   "type": "module"  
5 }  
6
```

The Output window at the bottom shows the following log:

```
[Running] node "d:\Practical 7\main.js"  
ESM import result: [Function: greet]  
calling default export: Default export says Hello!  
JSON import result: { language: 'JavaScript', version: 'ES2024' }  
  
[Done] exited with code=0 in 0.111 seconds
```

The status bar at the bottom indicates 'Ln 6, Col 1', 'Spaces: 2', 'UTF-8', 'CRLF', and 'JSON'.

This screenshot shows the Visual Studio Code interface with the 'sample.mjs' file selected in the Explorer sidebar. The file's content is visible in the editor:

```
1  
2 export const message = "Hello from ESM!";  
3 export default function greet() {  
4   return "Default export says Hello!";  
5 }  
6
```

The Output window at the bottom shows the same log as the previous screenshot:

```
[Running] node "d:\Practical 7\main.js"  
ESM import result: [Function: greet]  
calling default export: Default export says Hello!  
JSON import result: { language: 'JavaScript', version: 'ES2024' }  
  
[Done] exited with code=0 in 0.111 seconds
```

The status bar at the bottom indicates 'Ln 1, Col 1', 'Spaces: 2', 'UTF-8', 'CRLF', and 'JavaScript'.

Github Repo for Practical 7- <https://github.com/Akshat-280205/Practical-7-Node-Js.git>