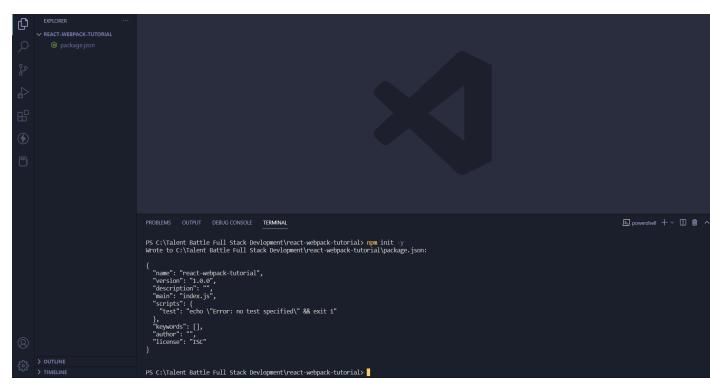
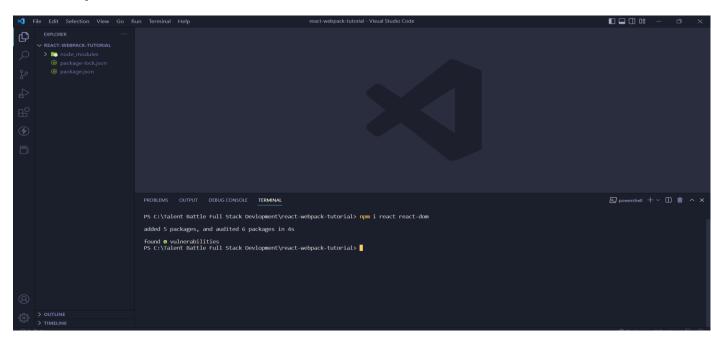
Module 5: React.js Webpack Assignment 06/01/2023

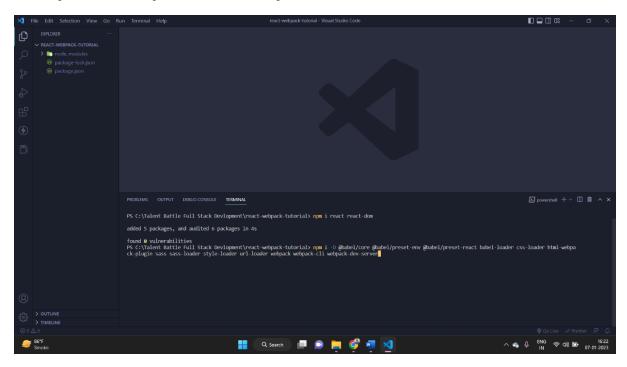
Step 1: npm init -y



Step 2: npm i react react-dom

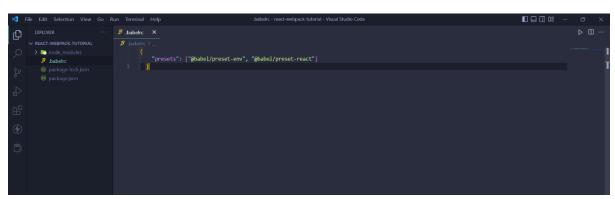


Step 3: npm i -D @babel/core @babel/preset-env @babel/preset-react babel-loader css-loader html-webpack-plugin sass sass-loader style-loader url-loader webpack webpack-cli webpack-dev-server



Step 4: Create. babelrc File in Root Directory

```
{
   "presets": ["@babel/preset-env", "@babel/preset-react"]
}
```



Step 5. Create a webpack.config.js file in root Directory

```
const path = require("path");
const HtmlWebpackPlugin = require("html-webpack-plugin");
module.exports = {
 output: {
    path: path.join(__dirname, "/dist"), // the bundle output path
    filename: "bundle.js", // the name of the bundle
  },
  plugins: [
    new HtmlWebpackPlugin({
      template: "src/index.html", // to import index.html file inside index.js
   }),
  devServer: {
    port: 3030, // you can change the port
  },
 module: {
    rules: [
        test: /\.(js|jsx)$/, // .js and .jsx files
        exclude: /node_modules/, // excluding the node_modules folder
        use: {
          loader: "babel-loader",
        },
        test: /\.(sa|sc|c)ss$/, // styles files
       use: ["style-loader", "css-loader", "sass-loader"],
        test: /\.(png|woff|woff2|eot|ttf|svg)$/, // to import images and fonts
        loader: "url-loader",
        options: { limit: false },
      },
```

Step 6. Create an /src folder and create the following files inside it

```
|-- src
|-- App.js
|-- App.scss
|-- index.html
|-- index.js
```



Your Folder Structure Will Be Like This

Step 7: Insert Following Things Inside Corresponding Files

1. App.js

2. App.scss

```
//! Advantage Of SASS We Can Have Nesting Of Tags
body{
    h1 {
        color: blue;
        text-align: center;
    }
    h2{
        color: red;
        text-align: center;
    }
}
```

3. Index.html

4. Index.js

```
import React from "react";
import ReactDOM from "react-dom";
import App from "./App";
import "./App.scss";

ReactDOM.render(<App />, document.getElementById('root'));
```

Step 8: Edit & Add Following Lines In "scripts" inside Package.json

```
"name": "react-webpack-tutorial",
"version": "1.0.0",
"description": "",
"main": "index.js",
"scripts": {
  "serve": "webpack serve --mode development",
  "build": "webpack --mode production"
"keywords": [],
"author": "",
"license": "ISC",
"dependencies": {
  "react": "^18.2.0",
  "react-dom": "^18.2.0"
},
"devDependencies": {
  "@babel/core": "^7.20.12",
  "@babel/preset-env": "^7.20.2",
  "@babel/preset-react": "^7.18.6",
  "babel-loader": "^9.1.2",
  "css-loader": "^6.7.3",
  "html-webpack-plugin": "^5.5.0",
  "sass": "^1.57.1",
  "sass-loader": "^13.2.0",
  "style-loader": "^3.3.1",
  "url-loader": "^4.1.1",
  "webpack": "^5.75.0",
  "webpack-cli": "^5.0.1",
  "webpack-dev-server": "^4.11.1"
```

Step 9: Run and modify your app

Run the app with npm run serve. Open your browser on http://localhost:3030/. Try to modify it and see the changes on the fly.

Step 10: Build the App

Run npm run build in the terminal. You will see the following output:

```
|-- dist
|-- bundle.js
|-- bundle.js.LICENSE.txt
|-- index.html
```

Finally, open the index.html file and you should see your app.

THANKYOU AND HAVE A NICE DAY 😊

Ameya Belvalkar