Creating a calculator in typescript using Inquirer

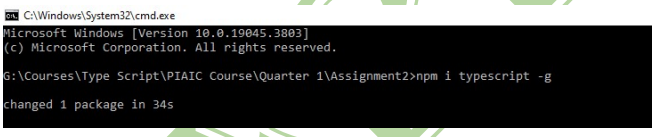
Name : Abdul Nasir
Batch No : 51 (Q1)

Create a calculator in TypeScript by installing Inquirer for user input. Set up the TypeScript configuration file (tscconfig.json) for compilation. With Inquirer, prompt the user for numbers and operations to perform basic calculations.

Type Script Installation:

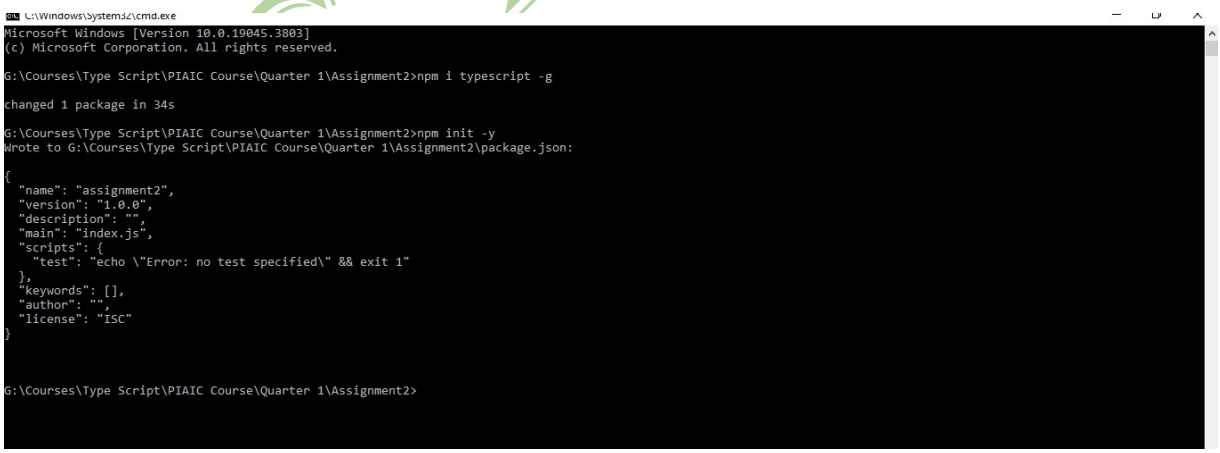
Type below command in Command Prompt and press Enter Key.

```
npm i typescript -g
```



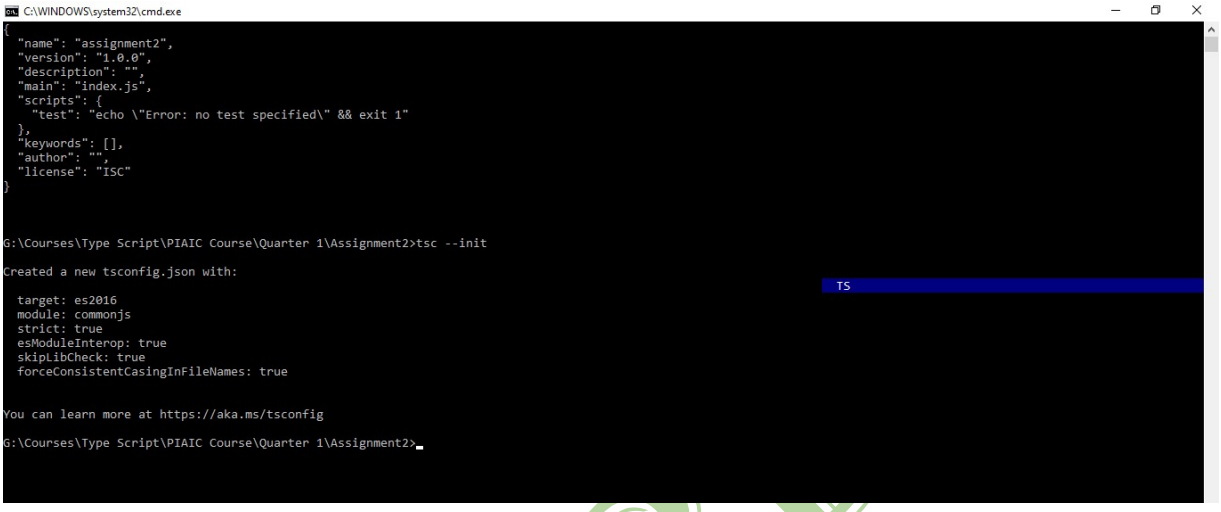
To make Package.json file current working directory, type below command and press Enter Key.

```
npm init -y
```



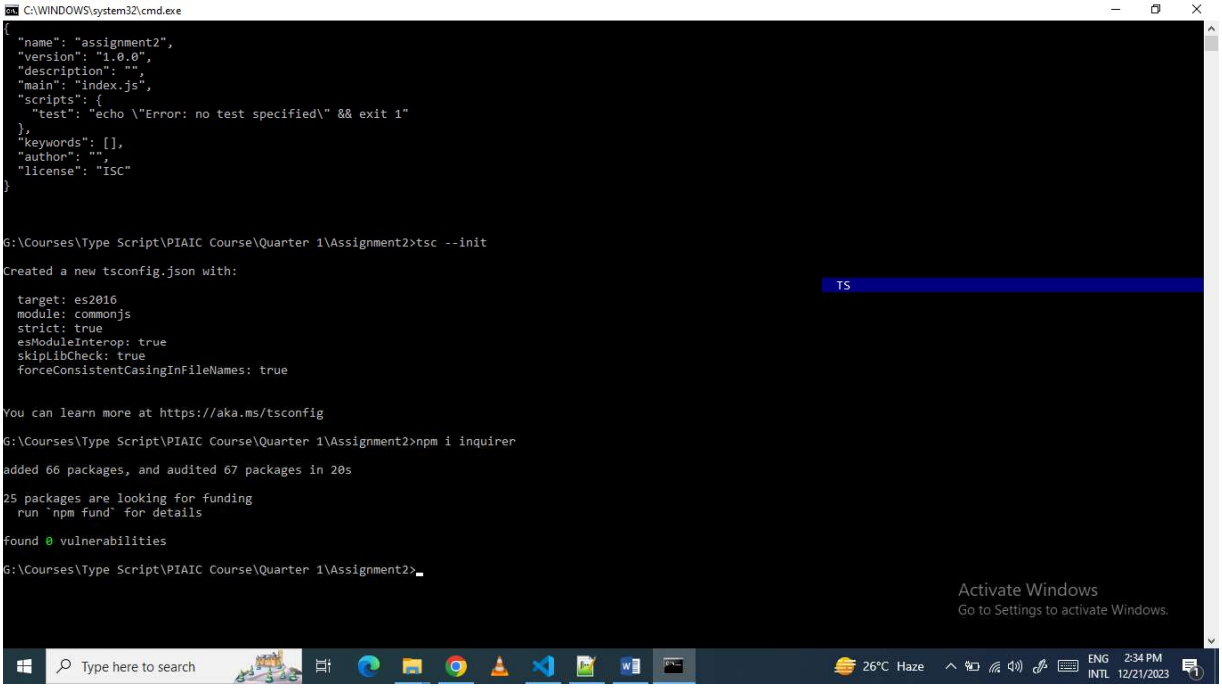
To make config file current working directory, type below command and press Enter Key.

tsc --init



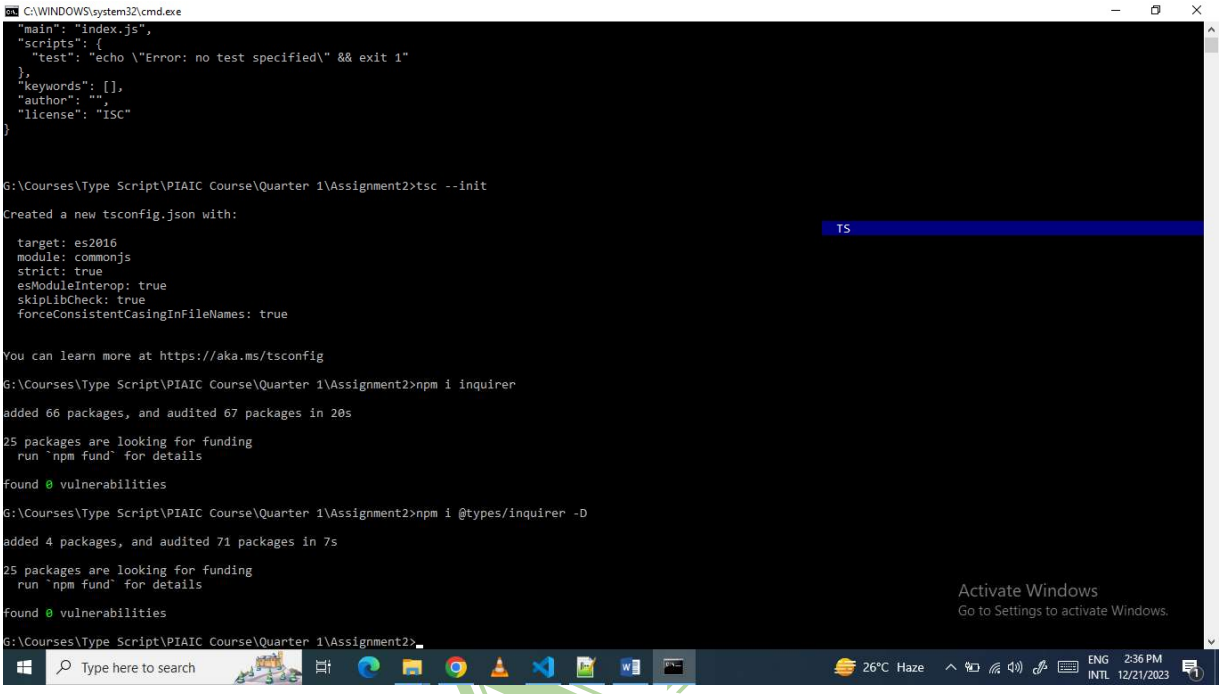
To download inquirer in current working directory, type below command and press Enter Key.

npm i inquirer

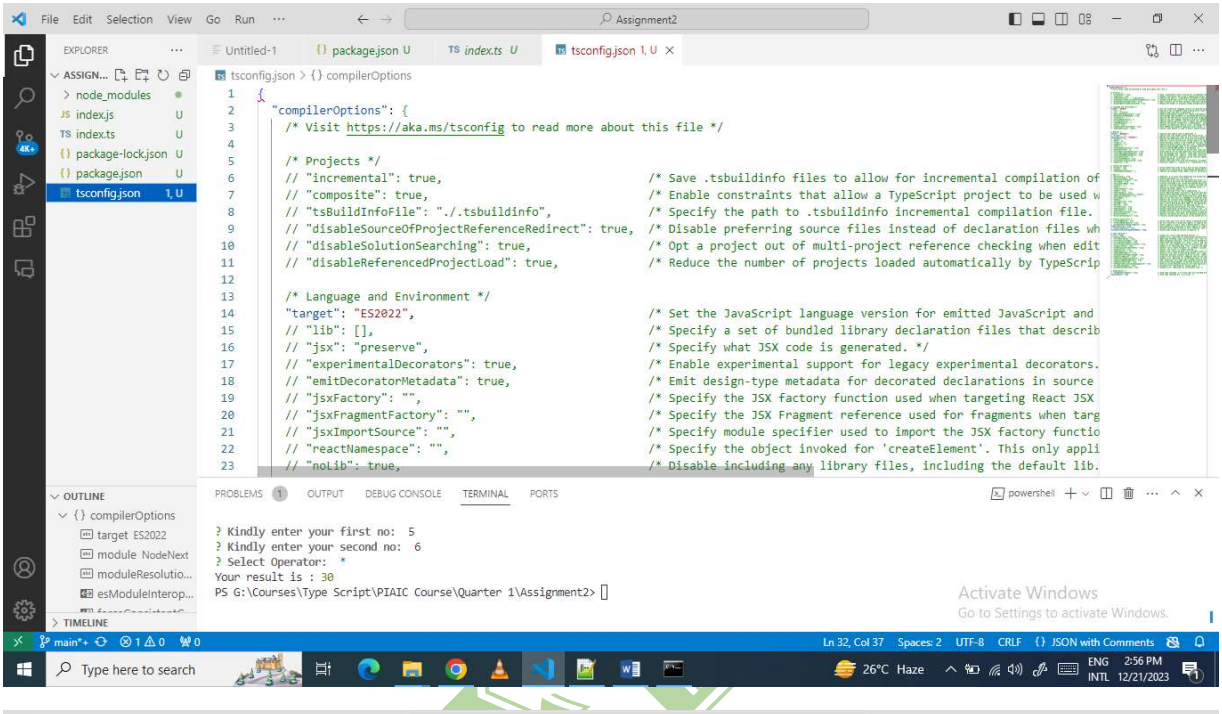


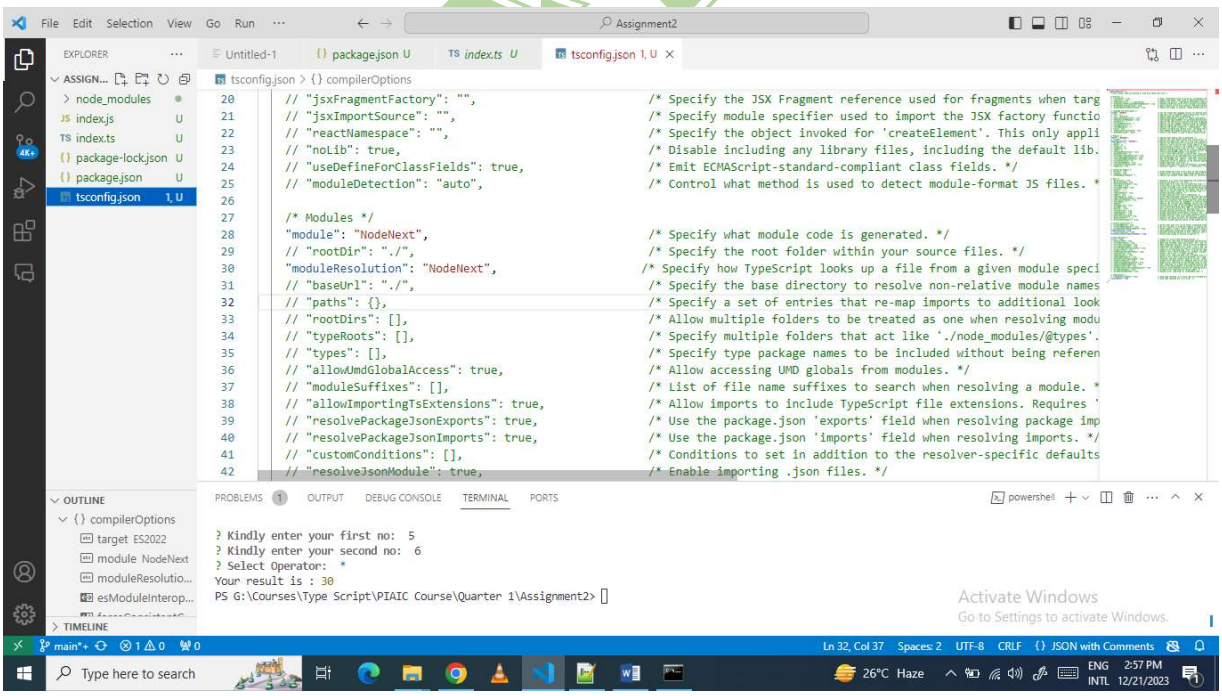
To download types inquirer in current working directory, type below command and press Enter Key.

npm i @types/inquirer -D

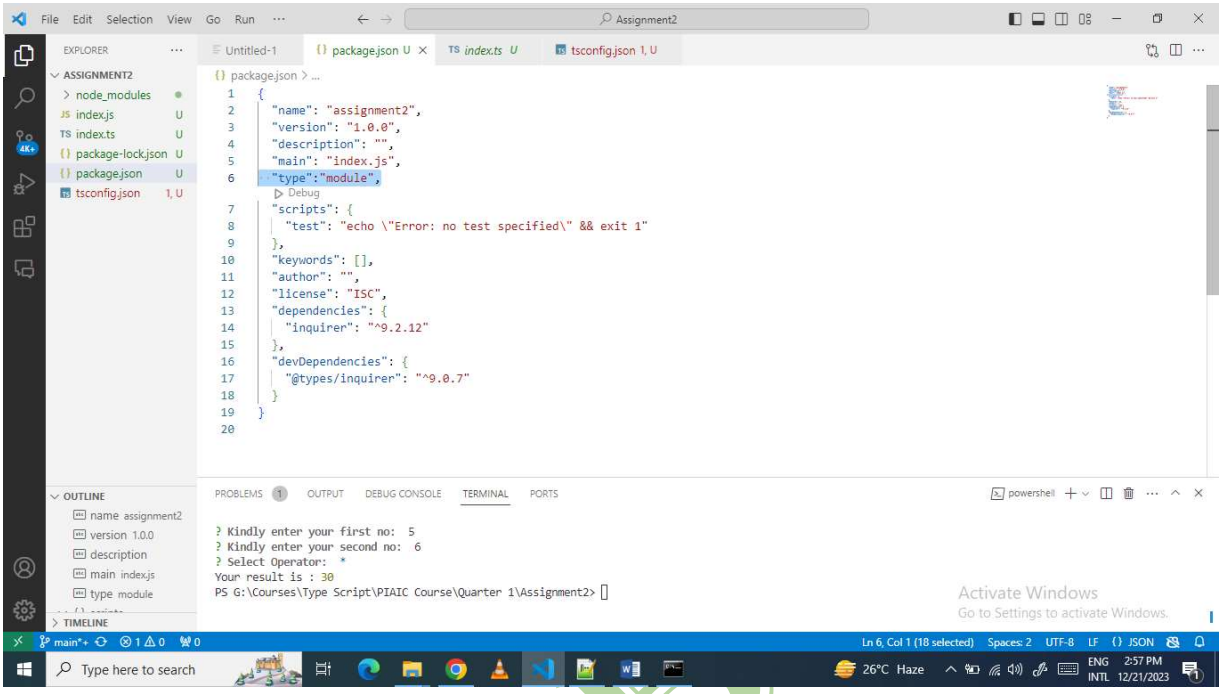


Now make some changes in confg file

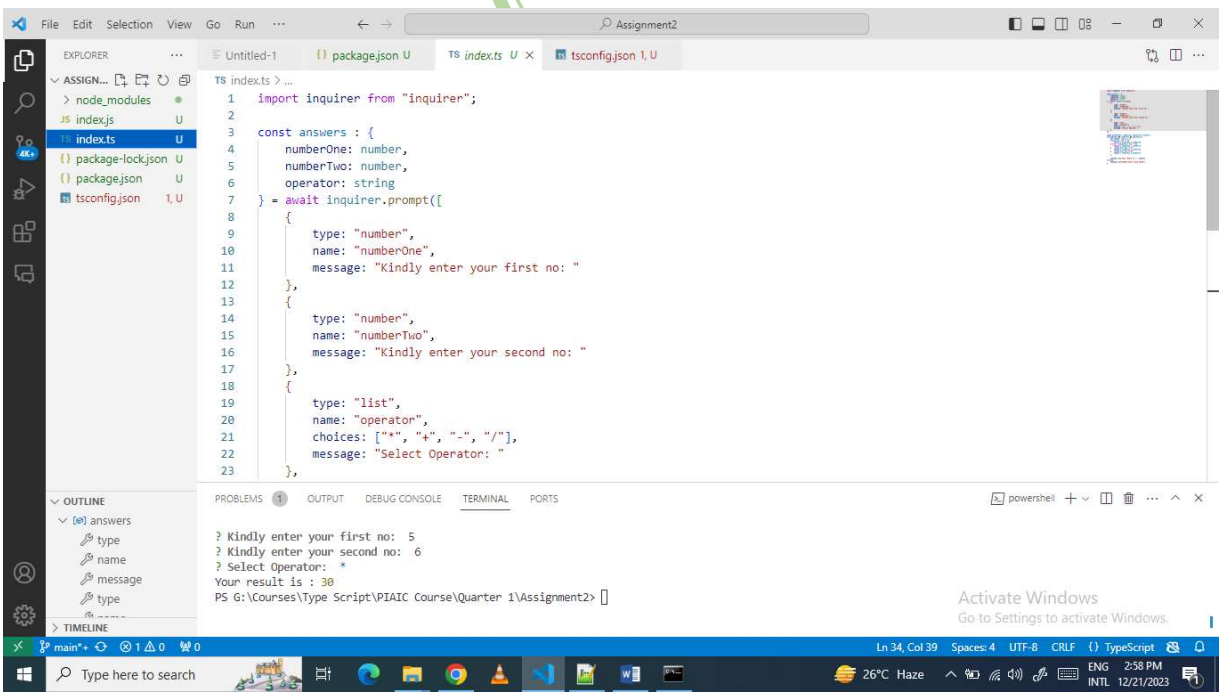




Open Package.json file and update as below:



Now create a file as .ts for example index.ts and write code as per your requirement below code is for calculator .



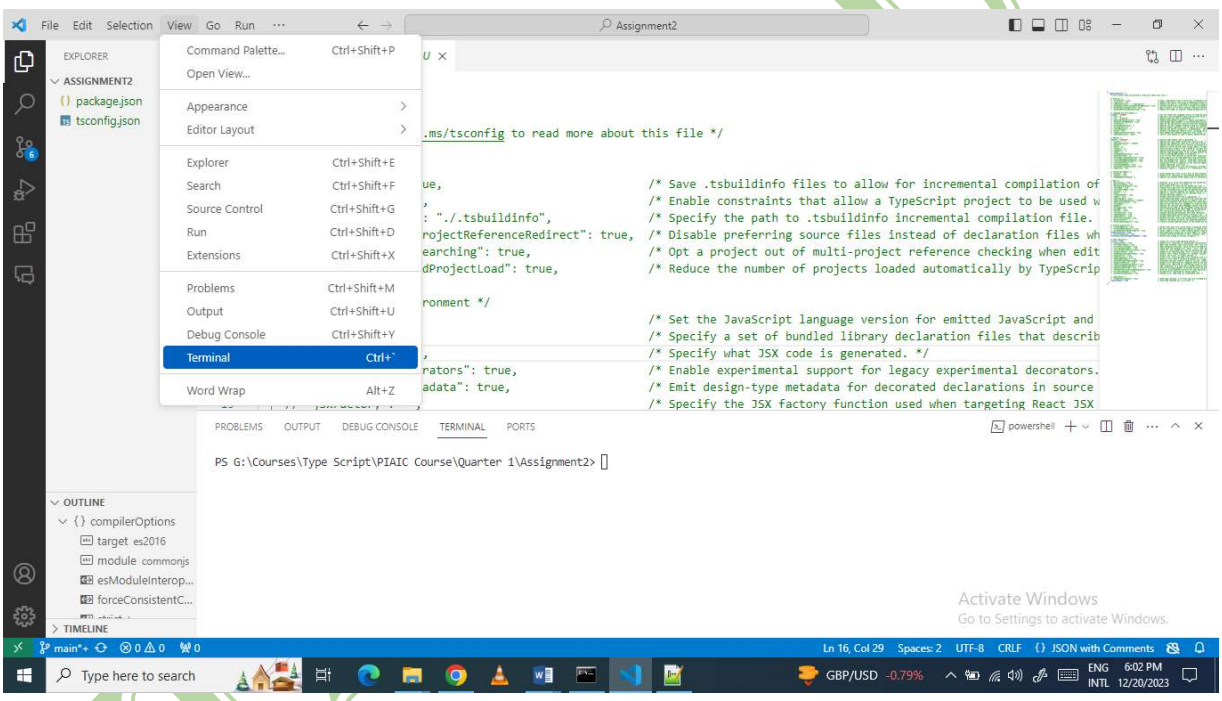
```
import inquirer from "inquirer";

const answers : {
    numberOne: number,
    numberTwo: number,
    operator: string
} = await inquirer.prompt([
    {
        type: "number",
        name: "numberOne",
        message: "Kindly enter your first no: "
    },
    {
        type: "number",
        name: "numberTwo",
        message: "Kindly enter your second no: "
    },
    {
        type: "list",
        name: "operator",
        choices: ["*", "+", "-", "/"],
        message: "Select Operator: "
    },
]);

const {numberOne, numberTwo, operator} = answers;
if(numberOne && numberTwo && operator) {
    let result: number = 0;
    if(operator === "+"){
        result = numberOne + numberTwo
    } else   if(operator === "-"){
        result = numberOne - numberTwo
    }   if(operator === "/"){
        result = numberOne / numberTwo
    }   if(operator === "*"){
        result = numberOne * numberTwo
    }
```

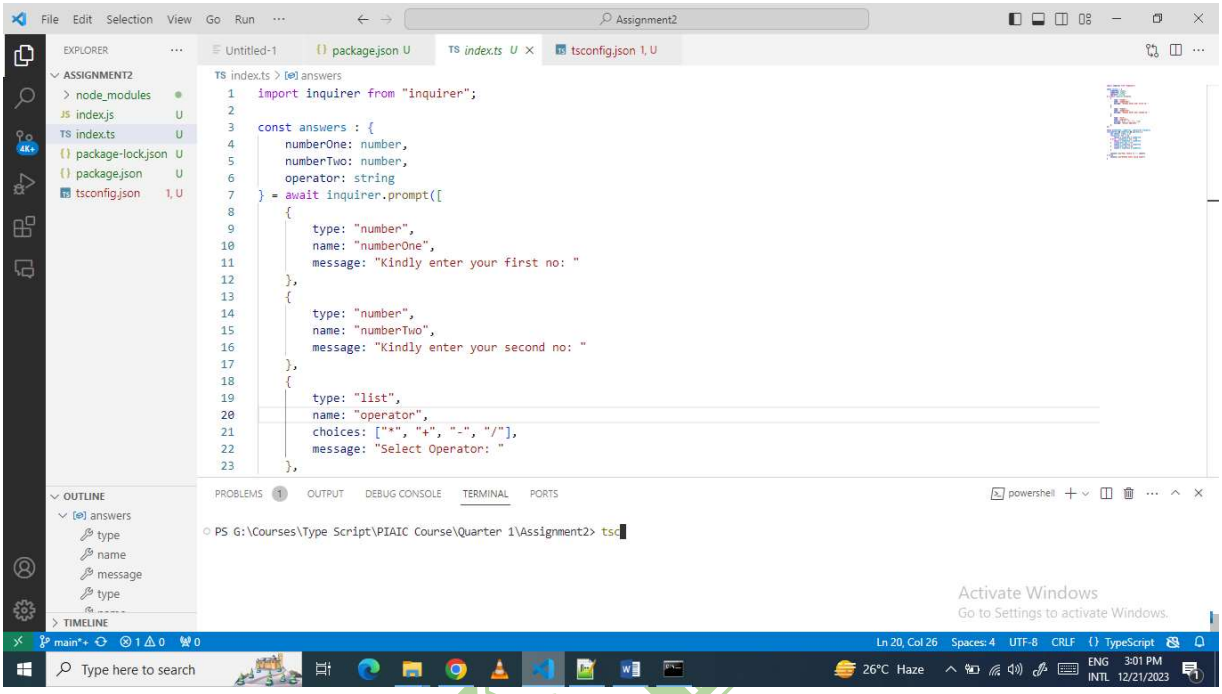
```
    console.log("Your result is :", result)
} else{
    console.log("Kindly enter valid input")
}
```

Open terminal window in VS Code , go to View menu and click on Terminal



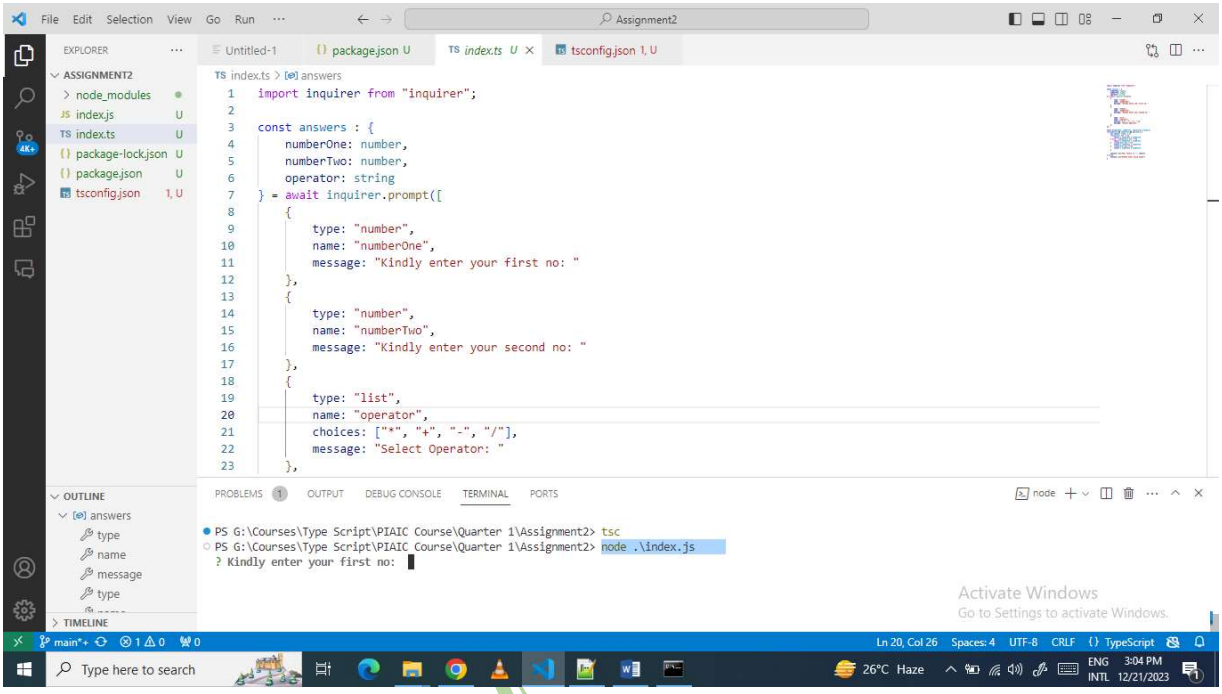
Write command as below to create .js file it will create the .js file.

tsc

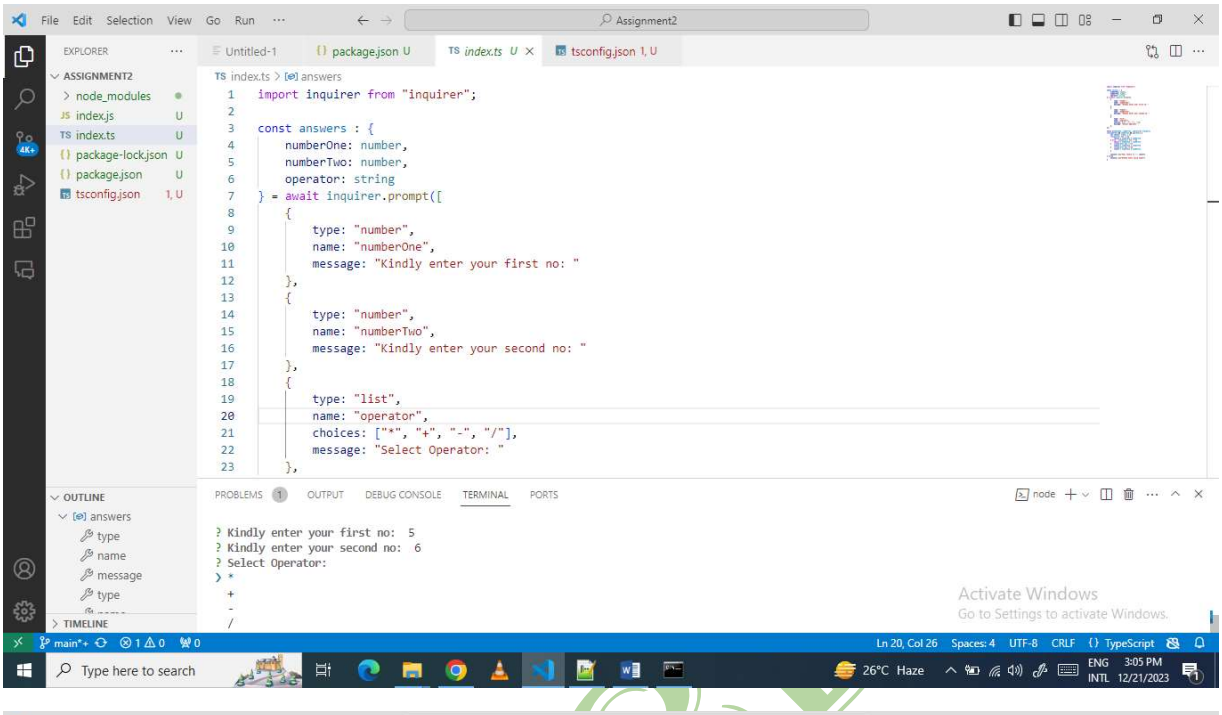


Now type below command and press enter key, and index.js file will be run

node .\index.js



Now enter two number one by one and with down arrow select the operator for calculation and press enter key, it will show the result.


File Edit Selection View Go Run
Assignment2
EXPLORER
ASSIGNMENT2
node_modules
index.js
index.ts
package-lock.json
package.json
tsconfig.json
Untitled-1
package.json U
index.ts U
tsconfig.json 1, U
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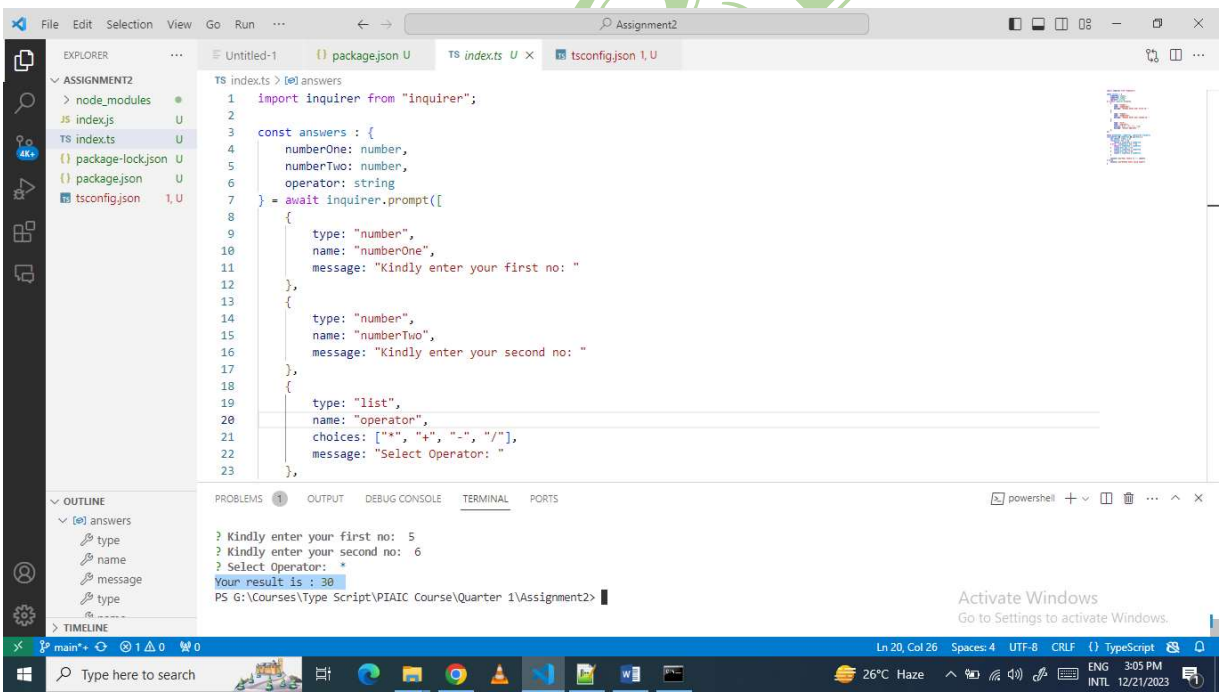
message: "Kindly enter your first no: "
},
{
type: "number",
name: "numberTwo",
message: "Kindly enter your second no: "
},
{
type: "list",
name: "operator",
choices: ["*", "+", "-", "/"],
message: "Select Operator: "
},
OUTLINE
answers
type
name
message
type
TIMELINE
PROBLEMS 1
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
node
? Kindly enter your first no: 5
? Kindly enter your second no: 6
? Select Operator:
*
+
-
/
Activate Windows
Go to Settings to activate Windows.
main*+
Ln 20, Col 26
Spaces: 4
UTF-8
CRLF
TypeScript
Type here to search
26°C Haze
ENG
INTL
3:05 PM
12/21/2023


File Edit Selection View Go Run
Assignment2
EXPLORER
ASSIGNMENT2
node_modules
index.js
index.ts
package-lock.json
package.json
tsconfig.json
Untitled-1
package.json U
index.ts U
tsconfig.json 1, U
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name: "numberTwo",
message: "Kindly enter your second no: "
},
{
type: "list",
name: "operator",
choices: ["*", "+", "-", "/"],
message: "Select Operator: "
},
OUTLINE
answers
type
name
message
type
TIMELINE
PROBLEMS 1
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
powershell
? Kindly enter your first no: 5
? Kindly enter your second no: 6
? Select Operator: *
Your result is : 30
PS G:\Courses\Type Script\PIAIC Course\Quarter 1\Assignment2>
Activate Windows
Go to Settings to activate Windows.
main*+
Ln 20, Col 26
Spaces: 4
UTF-8
CRLF
TypeScript
Type here to search
26°C Haze
ENG
INTL
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12/21/2023

Thanks