# Calculator-App using NodeJS

**STEP BY STEP PROGRESS USING PICTURES**

## STEP-1 : Basic Setup

```
                                    C:\Windows\system32\cmd.exe                                  -  □  X

Microsoft Windows [Version 10.0.19044.1826]
(c) Microsoft Corporation. All rights reserved.

C:\Users\hp>cd C:\Users\hp\Desktop\About_Node_using_ExpressJS

C:\Users\hp\Desktop\About_Node_using_ExpressJS>mkdir Calculator-app

C:\Users\hp\Desktop\About_Node_using_ExpressJS>cd Calculator-app

C:\Users\hp\Desktop\About_Node_using_ExpressJS\Calculator-app>touch calc
ulator.js
Touching calculator.js

C:\Users\hp\Desktop\About_Node_using_ExpressJS\Calculator-app>npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaul
ts.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (calculator-app)
version: (1.0.0)
description: Calculator app using NodeJS
entry point: (calculator.js)
test command:
git repository:
keywords:
author: Tyagi
license: (ISC)
```
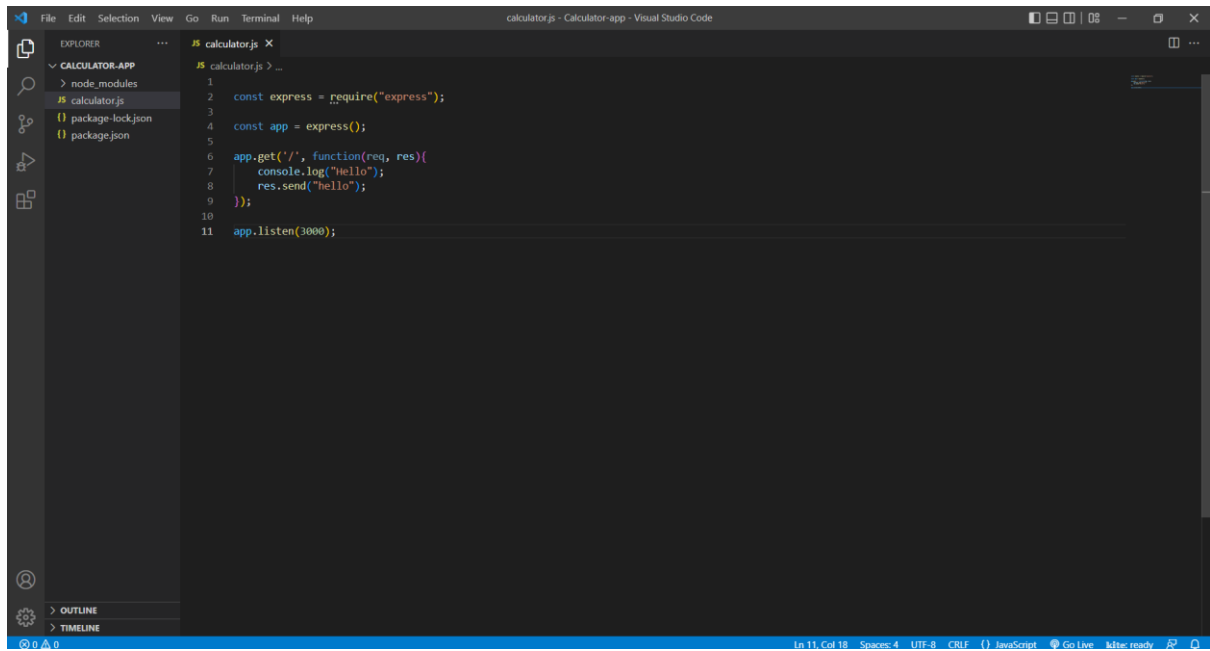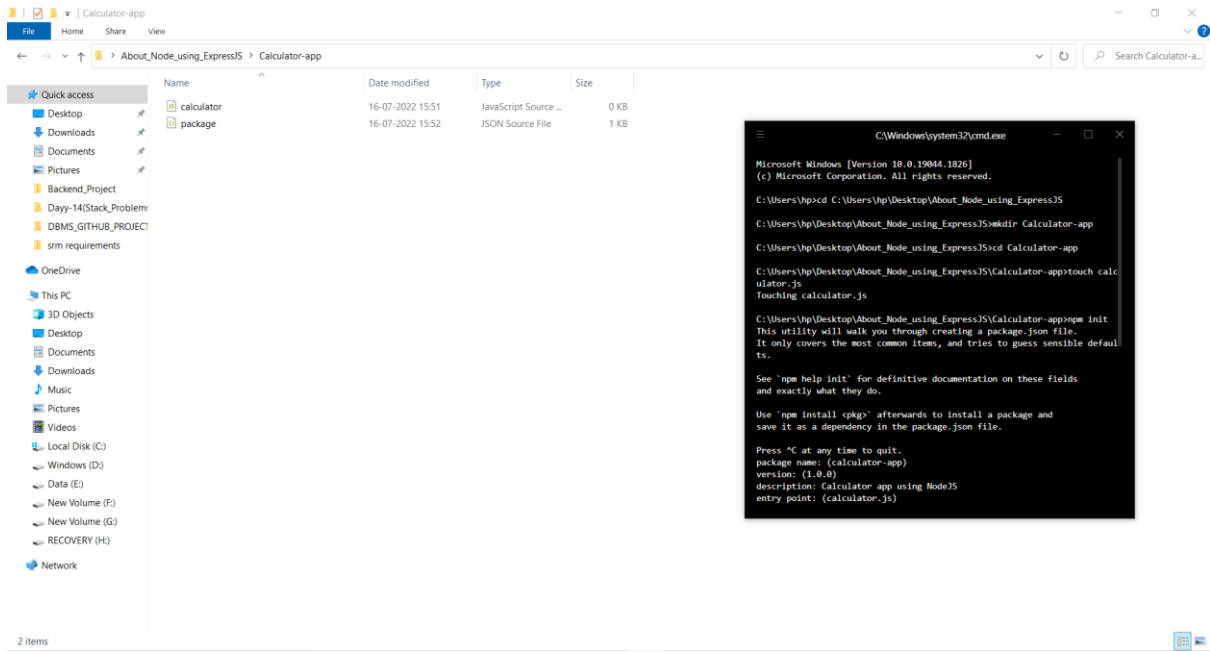
```
                                    C:\Windows\system32\cmd.exe                                  -  □  X

Press ^C at any time to quit.
package name: (calculator-app)
version: (1.0.0)
description: Calculator app using NodeJS
entry point: (calculator.js)
test command:
git repository:
keywords:
author: Tyagi
license: (ISC)
About to write to C:\Users\hp\Desktop\About_Node_using_ExpressJS\Calculator-app\package.json:

{
  "name": "calculator-app",
  "version": "1.0.0",
  "description": "Calculator app using NodeJS",
  "main": "calculator.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "Tyagi",
  "license": "ISC"
}


Is this OK? (yes)

C:\Users\hp\Desktop\About_Node_using_ExpressJS\Calculator-app>
```

```
C:\Windows\system32\cmd.exe

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C:\Users\hp>cd C:\Users\hp\Desktop\About_Node_using_ExpressJS

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C:\Users\hp\Desktop\About_Node_using_ExpressJS>cd Calculator-app

C:\Users\hp\Desktop\About_Node_using_ExpressJS\Calculator-app>touch calculator.js
Touching calculator.js

C:\Users\hp\Desktop\About_Node_using_ExpressJS\Calculator-app>npm init
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See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (calculator-app)
version: (1.0.0)
description: Calculator app using NodeJS
entry point: (calculator.js)
```

calculator.js - Calculator-app - Visual Studio Code

File  Edit  Selection  View  Go  Run  Terminal  Help

EXPLORER
CALCULATOR-APP
    > node_modules
    JS calculator.js
    {} package-lock.json
    {} package.json

```javascript
const express = require("express");

const app = express();

app.get('/', function(req, res){
    console.log("Hello");
    res.send("hello");
});

app.listen(3000);
```

Ln 11, Col 18    Spaces: 4    UTF-8    CRLF    {} JavaScript    Go Live    lidite: ready

```
C:\Windows\system32\cmd.exe - "node" "C:\Users\hp\AppData\Roaming\npm\\node_modules\nodemon\bin\nodemon.js" calculator.js

license: (ISC)
About to write to C:\Users\hp\Desktop\About_Node_using_ExpressJS\Calculator-app\package.json:

{
  "name": "calculator-app",
  "version": "1.0.0",
  "description": "Calculator app using NodeJS",
  "main": "calculator.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "Tyagi",
  "license": "ISC"
}


Is this OK? (yes)

C:\Users\hp\Desktop\About_Node_using_ExpressJS\Calculator-app>npm install express

added 57 packages, and audited 58 packages in 2s

7 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

C:\Users\hp\Desktop\About_Node_using_ExpressJS\Calculator-app>nodemon calculator.js
[nodemon] 2.0.19
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node calculator.js`
```
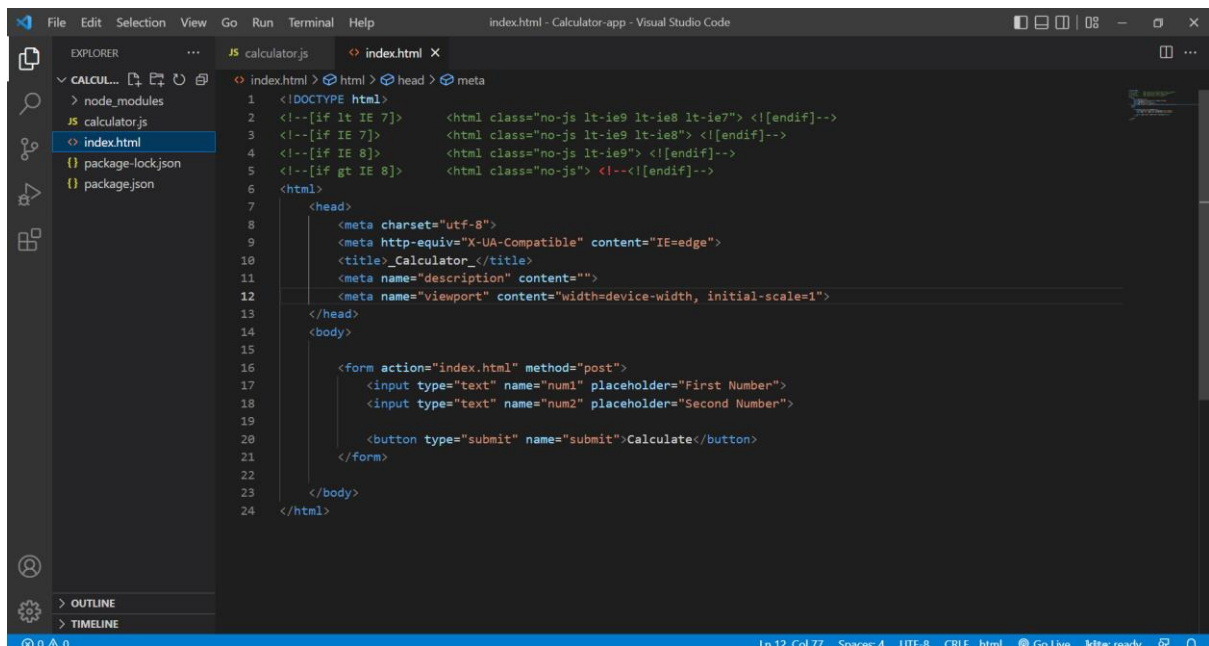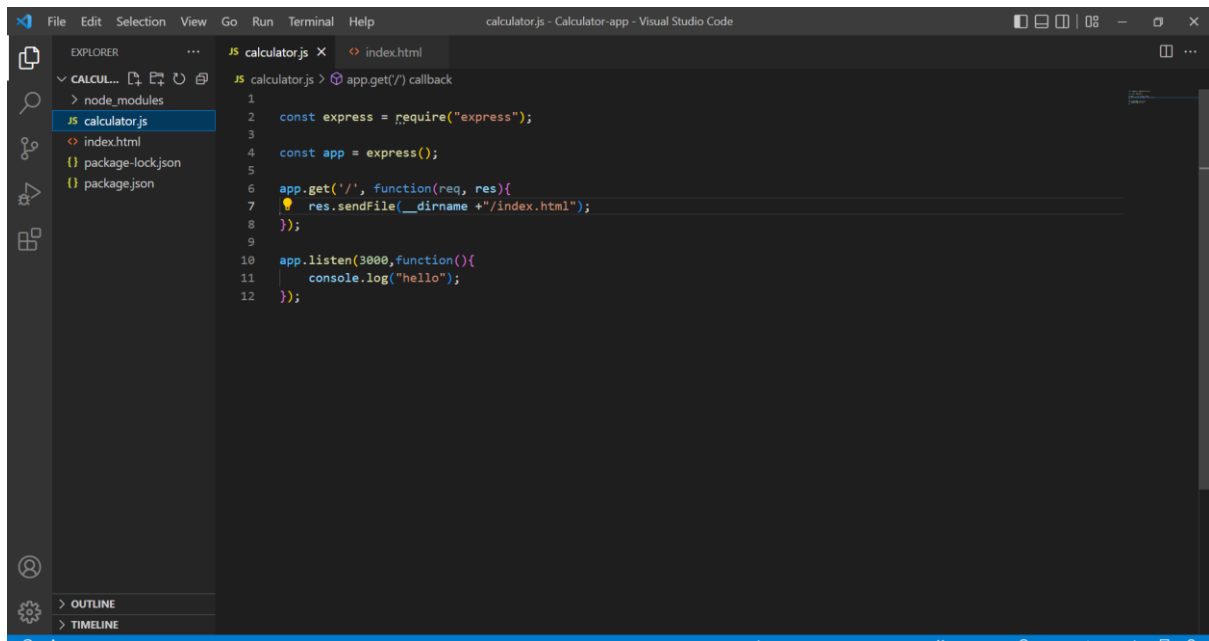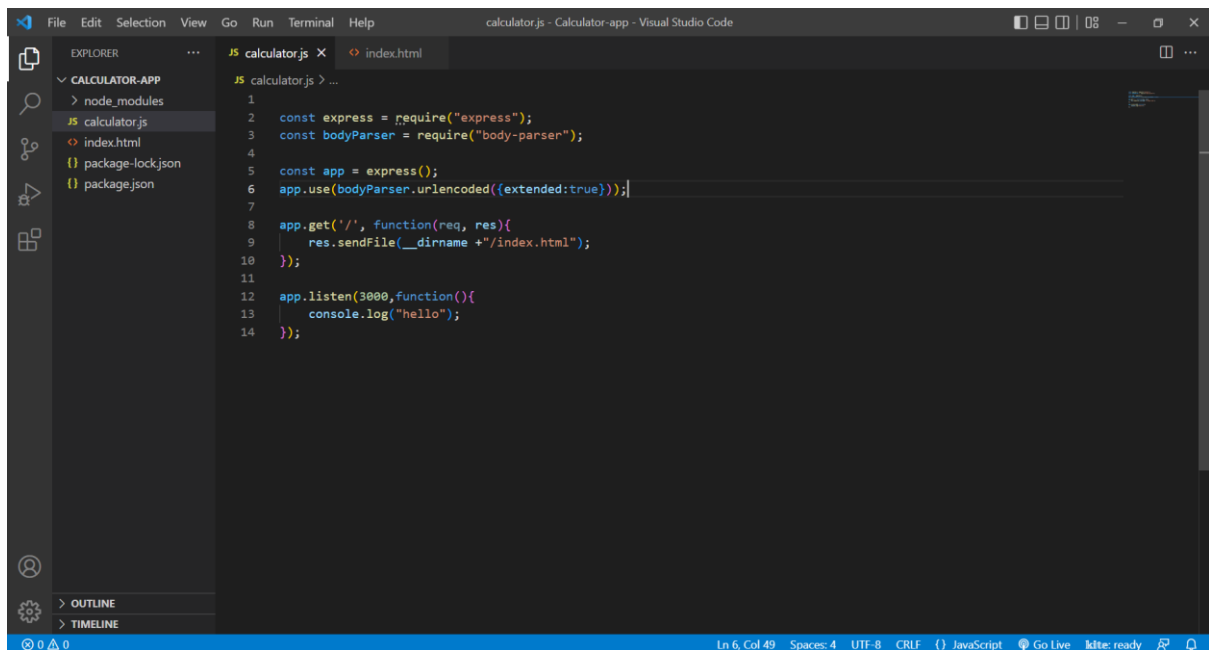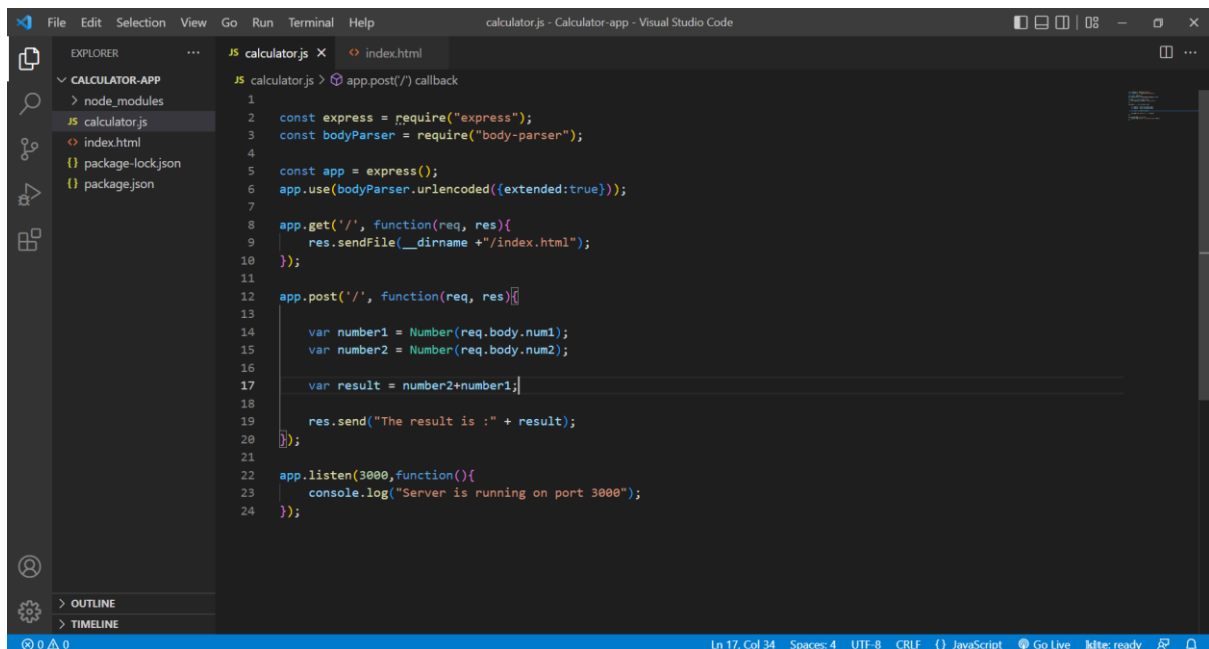
localhost:3000

localhost:3000

hello

## Step 2: - Building the HTML File and Linking it

# Calculator

First Number | Second Number | Calculate

**Step 3: - Using post and body parser to Calculate the sum of the given inputs.**

## Basic code to be written whenever you use bodyParser.

```javascript
const express = require("express");
const bodyParser = require("body-parser");

const app = express();
app.use(bodyParser.urlencoded({extended:true}));

app.get('/', function(req, res){
    res.sendFile(__dirname +"/index.html");
});

app.listen(3000,function(){
    console.log("hello");
});
```

```javascript
const express = require("express");
const bodyParser = require("body-parser");

const app = express();
app.use(bodyParser.urlencoded({extended:true}));

app.get('/', function(req, res){
    res.sendFile(__dirname +"/index.html");
});

app.post('/', function(req, res){

    var number1 = Number(req.body.num1);
    var number2 = Number(req.body.num2);

    var result = number2+number1;

    res.send("The result is :" + result);
});

app.listen(3000,function(){
    console.log("Server is running on port 3000");
});
```

The result is :5