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## How to create a basic Hello world Using node express js.?

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### Installation:

#### Step1:

First you need to install node js ,

Download here : <https://nodejs.org/en/download/>

If you have already installed then ignore it.

The screenshot shows the Node.js download page. The 'LTS' section is highlighted in green, indicating it is recommended for most users. The 'Current' section is also visible. Below these, there are download links for Windows Installer, macOS Installer, and Source Code. A table lists the available binaries for each platform, including 32-bit and 64-bit versions, and ARMv7 and ARMv8 versions. Red checkmarks are placed next to the 'Windows Installer' and '64-bit' links.

LTS Recommended For Most Users		Current Latest Features	
Windows Installer	macOS Installer	Source Code	
node-v16.15.1-win64.msi	node-v16.15.1.pkg	node-v16.15.1.tar.gz	
Windows Installer (.msi)	32-bit	64-bit	
Windows Binary (.zip)	32-bit	64-bit	
macOS Installer (.pkg)	64-bit / ARM64		
macOS Binary (.tar.gz)	64-bit	ARM64	
Linux Binaries (x64)	64-bit		
Linux Binaries (ARM)	ARMv7	ARMv8	
Source Code	node-v16.15.1.tar.gz		

After installation process done plesase check the below commands in your terminal.

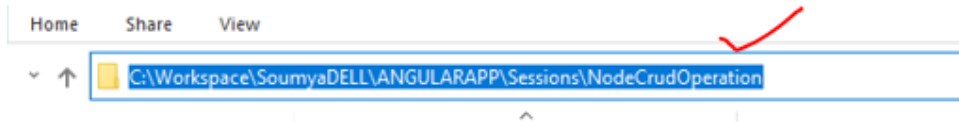
Check the versions `node -v`, `npm -v`

### Step 2:

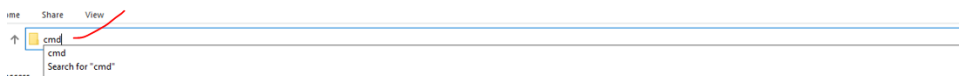
Create a folder and open that folder in terminal

Pic-1:

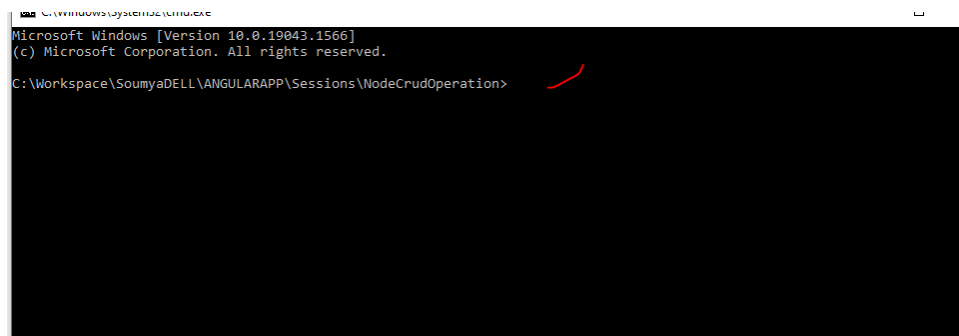
Create a folder name 'NodeCrudOperation' and select all the path and type 'cmd' see the below images



Pic-2:



Pic-3:



### Step 3:

Run this command ``npm init``. This will create package json. See the below image

```

C:\Workspace\SoumyaDELL\ANGULARAPP\Sessions\NodeCrudOperation>code .
C:\Workspace\SoumyaDELL\ANGULARAPP\Sessions\NodeCrudOperation>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 defaults.

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.

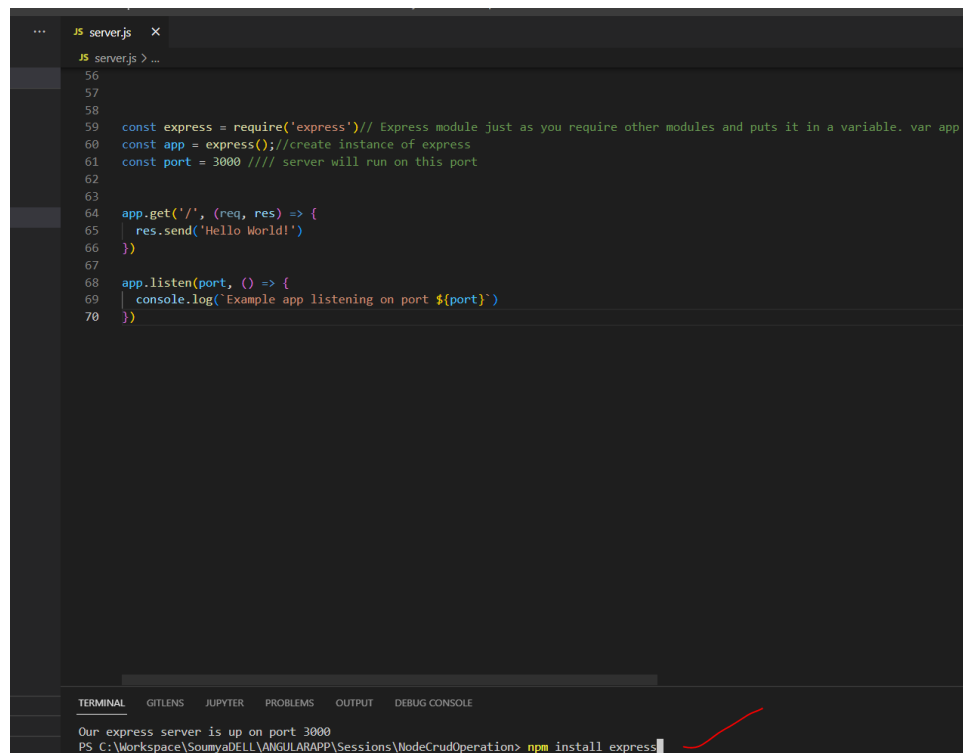
Press ^C at any time to quit.
package name: (nodecrudoperation) nodecrudoperation
version: (1.0.0) 1.0.0
description: demo
entry point: (server.js)
test command:
git repository:
keywords:
author:
license: (ISC)
About to write to C:\Workspace\SoumyaDELL\ANGULARAPP\Sessions\NodeCrudOperation\package.json:
{
  "name": "nodecrudoperation",
  "version": "1.0.0",
  "description": "demo",
  "main": "server.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "start": "node server.js"
  },
  "author": "",
  "license": "ISC"
}

Is this OK? (yes)
C:\Workspace\SoumyaDELL\ANGULARAPP\Sessions\NodeCrudOperation>node -v
v16.14.2
C:\Workspace\SoumyaDELL\ANGULARAPP\Sessions\NodeCrudOperation>npm -v
'npm-v' is not recognized as an internal or external command,
operable program or batch file.
C:\Workspace\SoumyaDELL\ANGULARAPP\Sessions\NodeCrudOperation>npm -v
7.18.1
C:\Workspace\SoumyaDELL\ANGULARAPP\Sessions\NodeCrudOperation>

```

#### Step-4:

Create a .js file (server.js) file.(You can give your own file name) and run this command on your terminal" npm install express"



The screenshot shows a VS Code editor with a file named `server.js` open. The file contains the following JavaScript code:

```

56
57
58
59 const express = require('express')// Express module just as you require other modules and puts it in a variable. var app =
60 const app = express();//create instance of express
61 const port = 3000 //// server will run on this port
62
63
64 app.get('/', (req, res) => {
65   res.send('Hello World!')
66 })
67
68 app.listen(port, () => {
69   console.log(`Example app listening on port ${port}`)
70 })

```

At the bottom, the terminal window shows the command `npm install express` being executed. The output of the command is visible: "Our express server is up on port 3000".

## Code:

Write below code inside server.js

```
const express = require('express')// Express module just as you require other modules and puts it in a variable. var app = express(); => Calls the express function "express()" and puts new Express application inside the app variable (to start a new Express application)
```

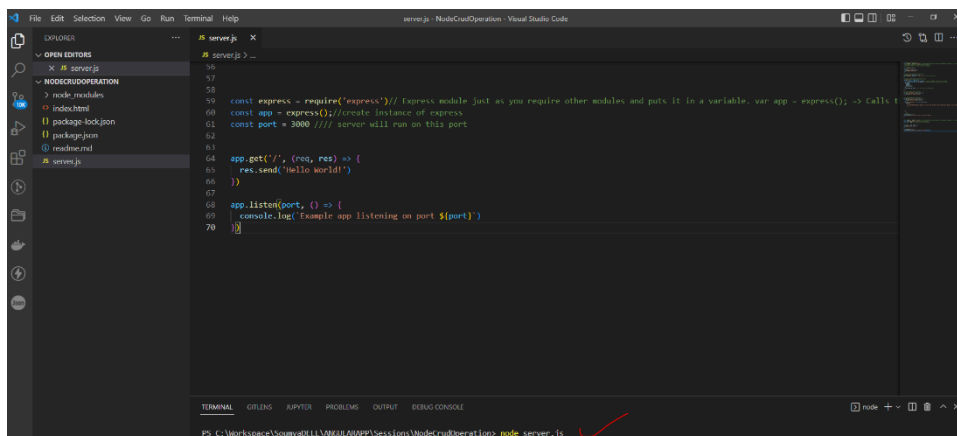
```
const app = express();//create instance of express
```

```
const port = 3000 // server will run on this port
```

```
app.get('/', (req, res) => {  
    res.send('Hello World!')  
})
```

```
app.listen(port, () => {  
    console.log(`Example app listening on port ${port}`)  
})
```

Image:



After writing code then open your terminal and run this command '**node server.js**'.

The screenshot shows the Visual Studio Code interface. On the left, the Explorer sidebar shows a project named 'NODECRUDOPERATION - COPY' with files like 'package-lock.json', 'package.json', 'README.md', and 'server.js'. The main editor displays the content of 'server.js', which is a simple Express.js server. The code includes comments and sets the port to 3000. The terminal at the bottom shows the command 'node server.js' being executed, and the output 'Example app listening on port 3000' is displayed, with a red checkmark next to the port number.

```
server.js
1  const express = require('express');// Express module just as you require other modules and puts it in a variable. var app = express(); => Calls t
2  const app = express();//create instance of express
3  const port = 3000 // server will run on this port (You can change the port number )
4  //NB: same port number you can't run different node project at the same time.
5
6
7
8  app.get('/', (req, res) => {
9    res.send('Hello World!') //this Hello World! message will show when you run this URL in your browser: http://localhost:3000/
10 })
11
12
13 app.listen(port, () => {
14   console.log(`Example app listening on port ${port}`)
15 })
16
```

TERMINAL

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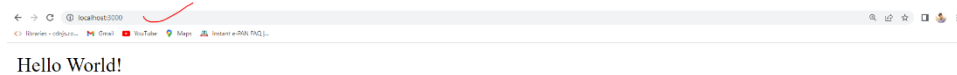
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Workspace\SoumyaDELL\ANGULARAPP\Sessions\NodeCrudOperation - Copy> node server.js

Example app listening on port 3000 ✓

Output:

<http://localhost:3000/>



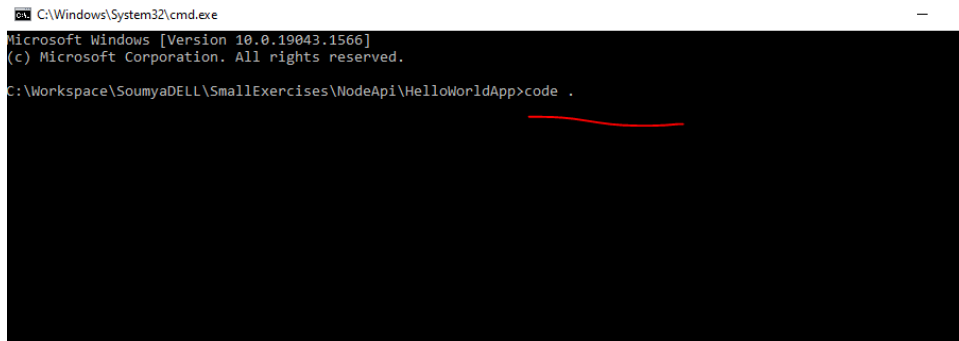
## Exercises:

Q1. create a node js GET api send "Hi this is my first program " .using this url <http://localhost:3000/user/something> check the router Path.

Q2.

**Short Key:**

*In a specific folder command prompt Type `Code .` (code space dot) it will open your project directly in vs code.*



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19043.1566]
(c) Microsoft Corporation. All rights reserved.

C:\Workspace\SoumyaDELL\SmallExercises\NodeApi\HelloWorldApp>code .
```

*Ctrl+shift+c : when your project is open on vs code then type Ctrl+shift+c at a time then command prompt will open directly.*

