
Node Js, VScode, Typescript and Angular 12 Installation

Screen Shots

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ESTD 2005

Node Js Installation

- 1) Double Click on **node-v14.15.1-x64.msi**, Click on Run
Url <https://nodejs.org/en/blog/release/v14.15.1/>



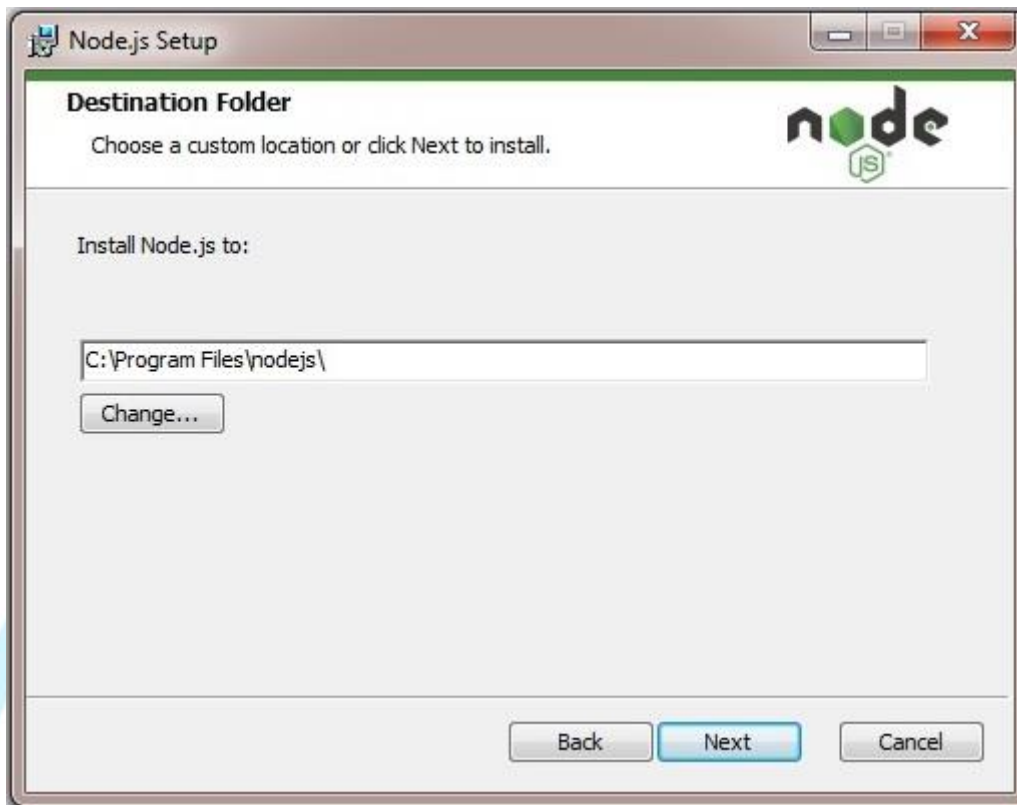
- 2) Click on next



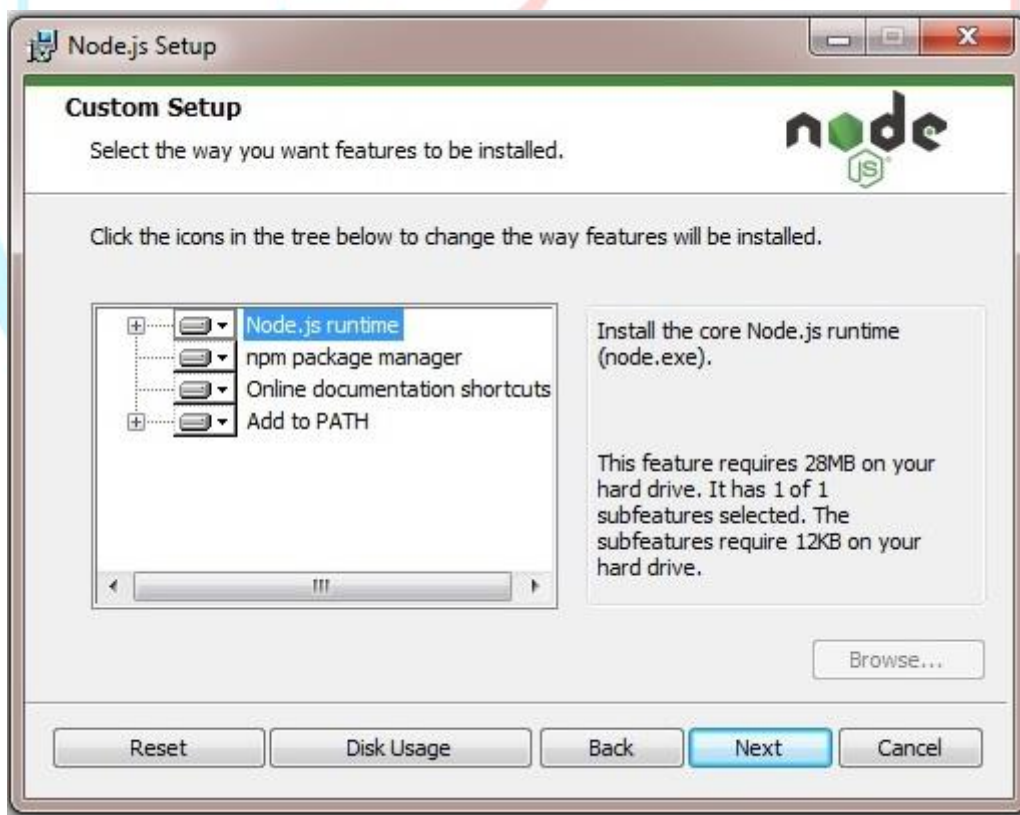
3) Check **I accept the terms in the License Agreement** click on next



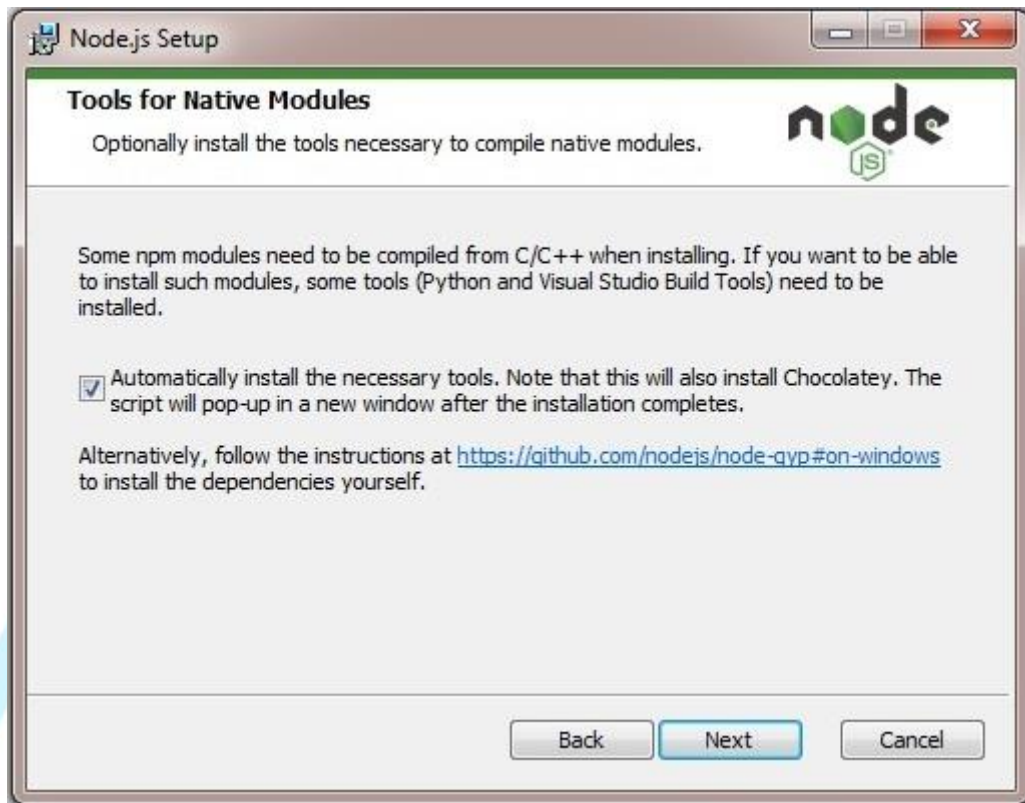
4) Set the **Destination Folder** where you want to install Node.js & Select **Next**



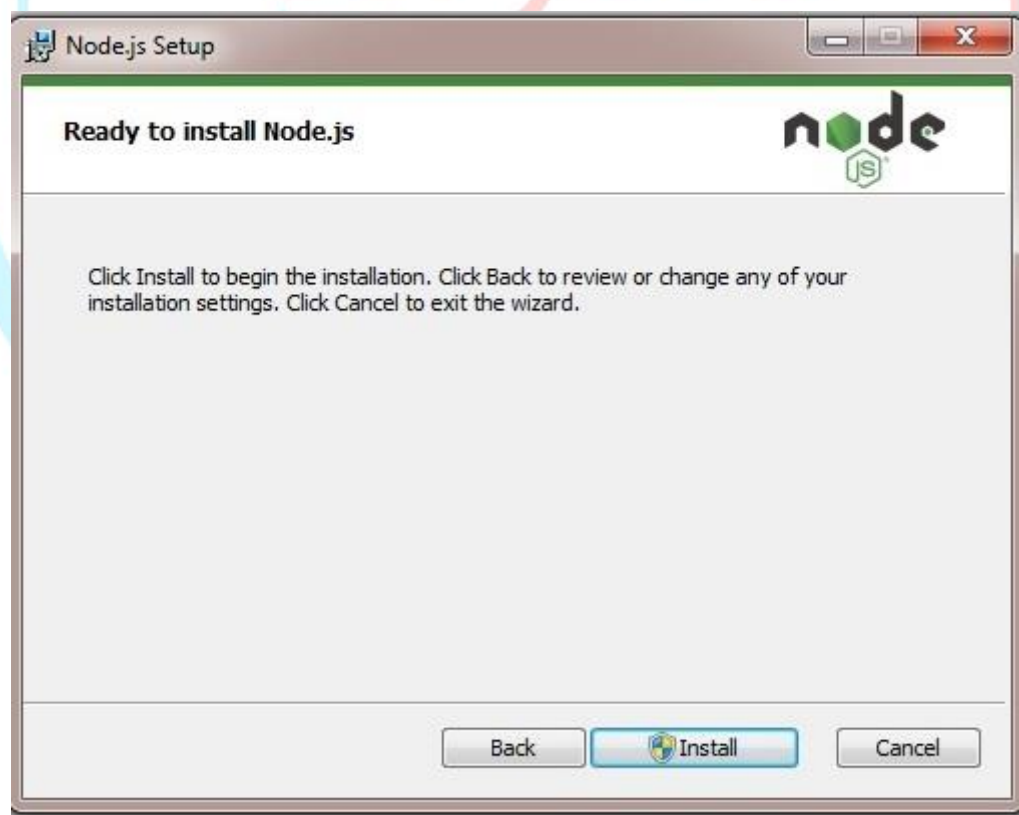
5) Select **Next**



6) Select **Next**



7) Ready to **Install**



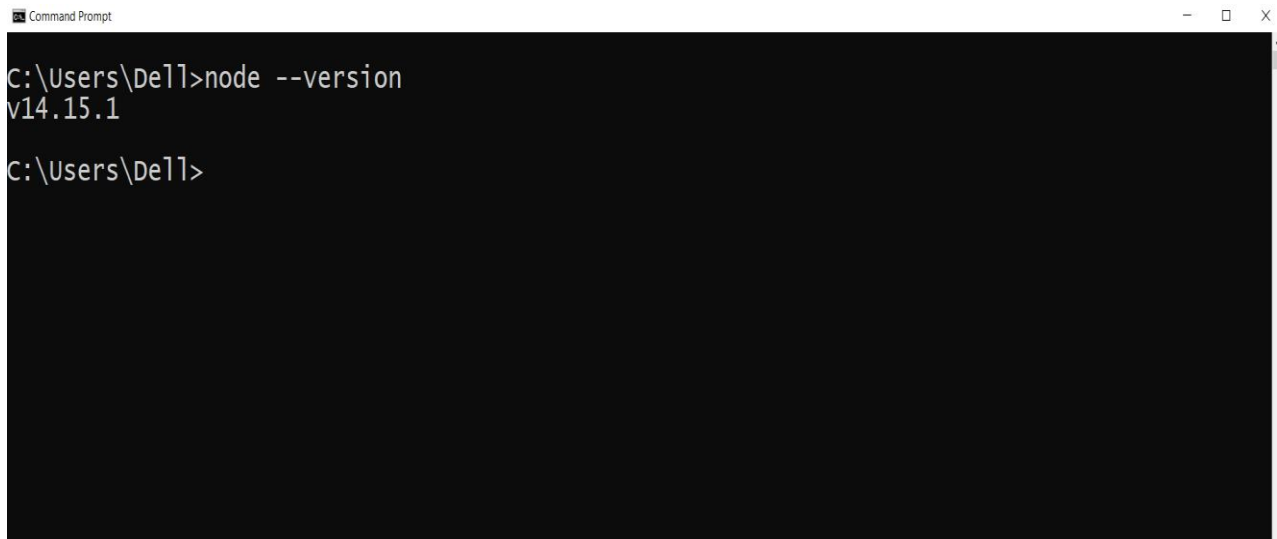
8) Installing **Node js**



9) Completed Node.js Setup wizard



10) Open CMD & check the Version & then Restart PC



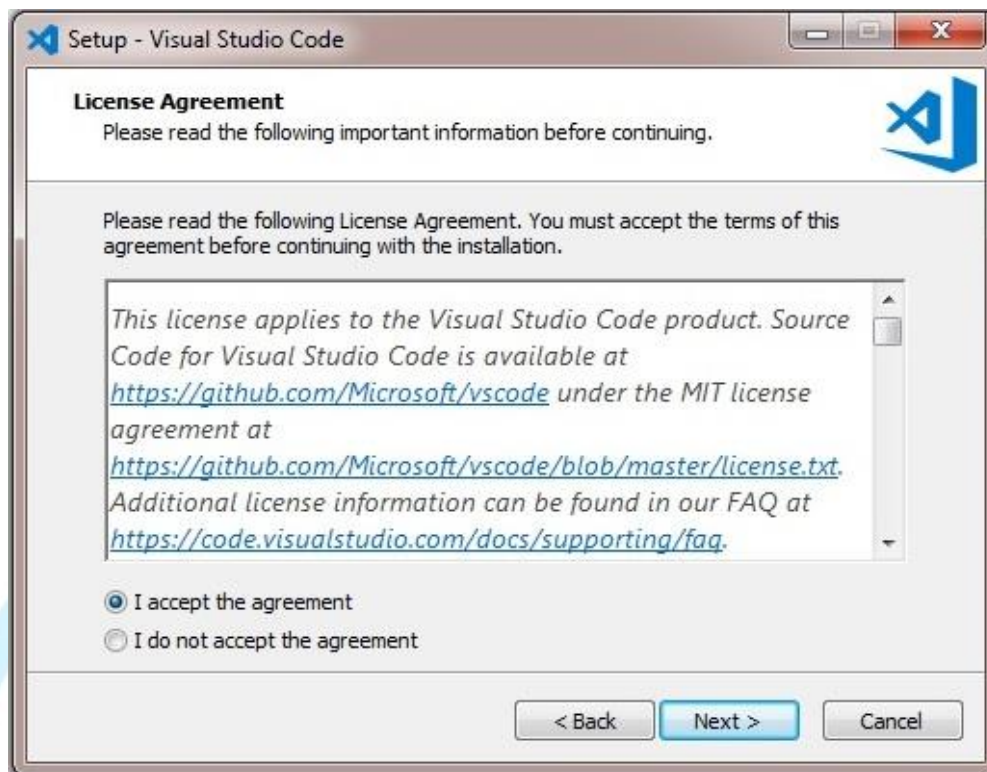
```
Command Prompt
C:\Users\De11>node --version
v14.15.1
C:\Users\De11>
```

VSCode IDE Installation

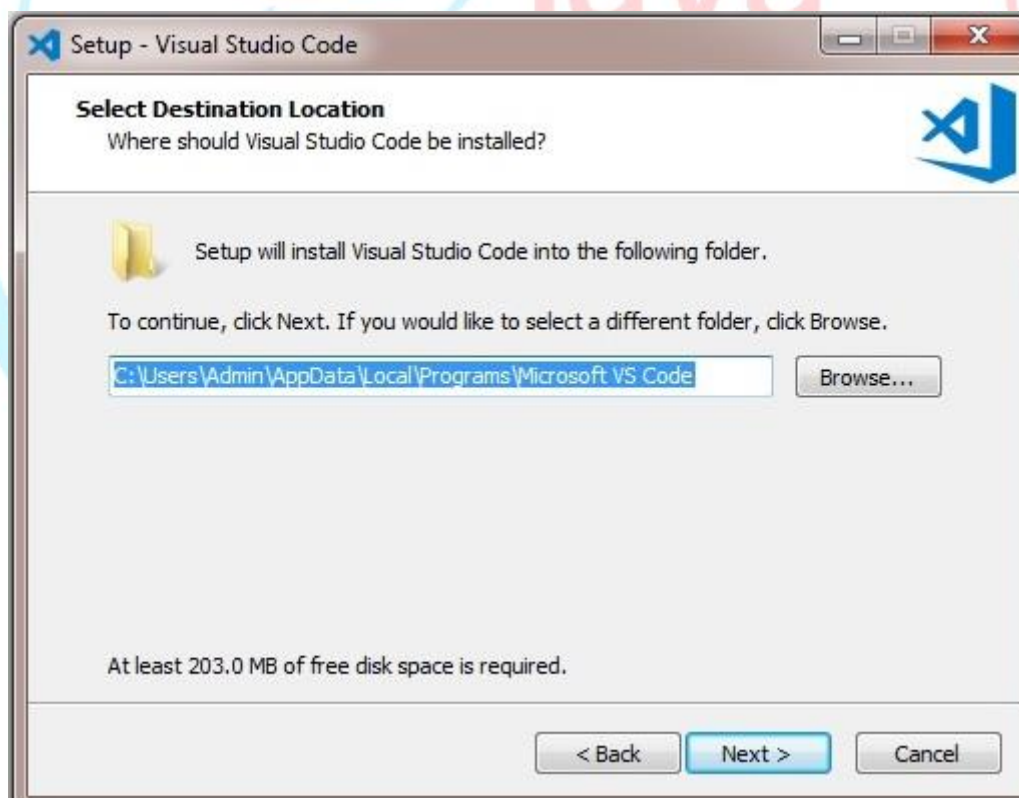
- 1) Double Click on VSCodeUserSetup-x64-1.32.3
Url <https://code.visualstudio.com/download>



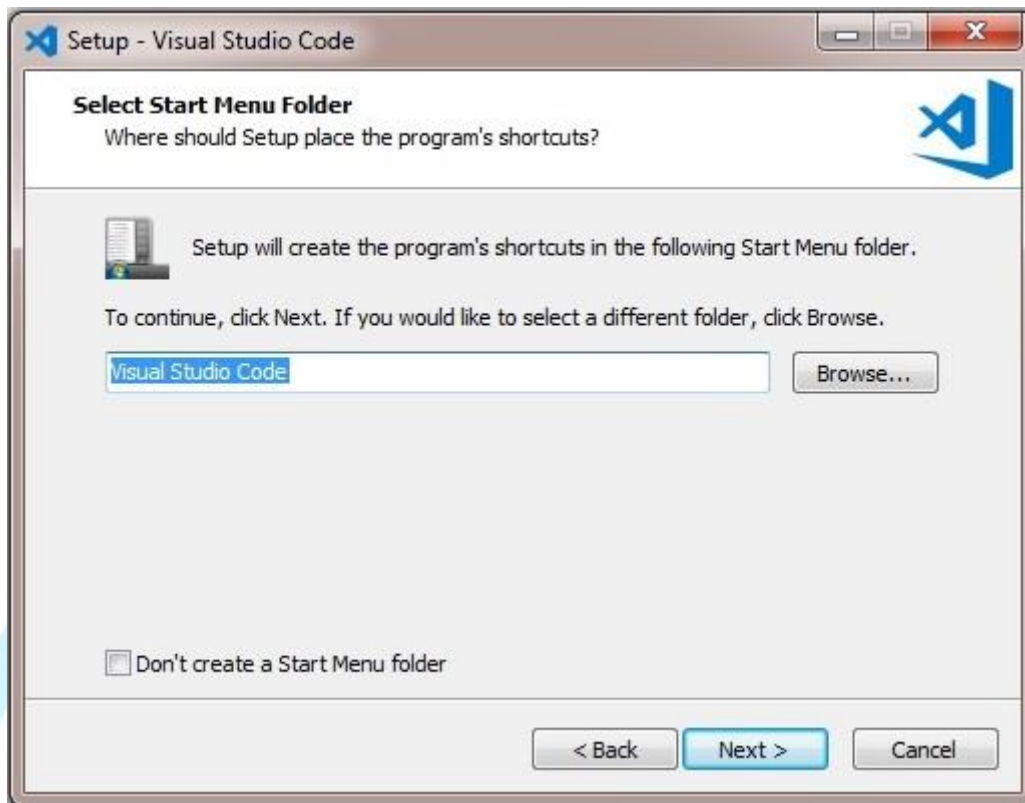
- 2) Accept **License Agreement**



3) Select the **Destination Folder**



4) Select start Menu Folder



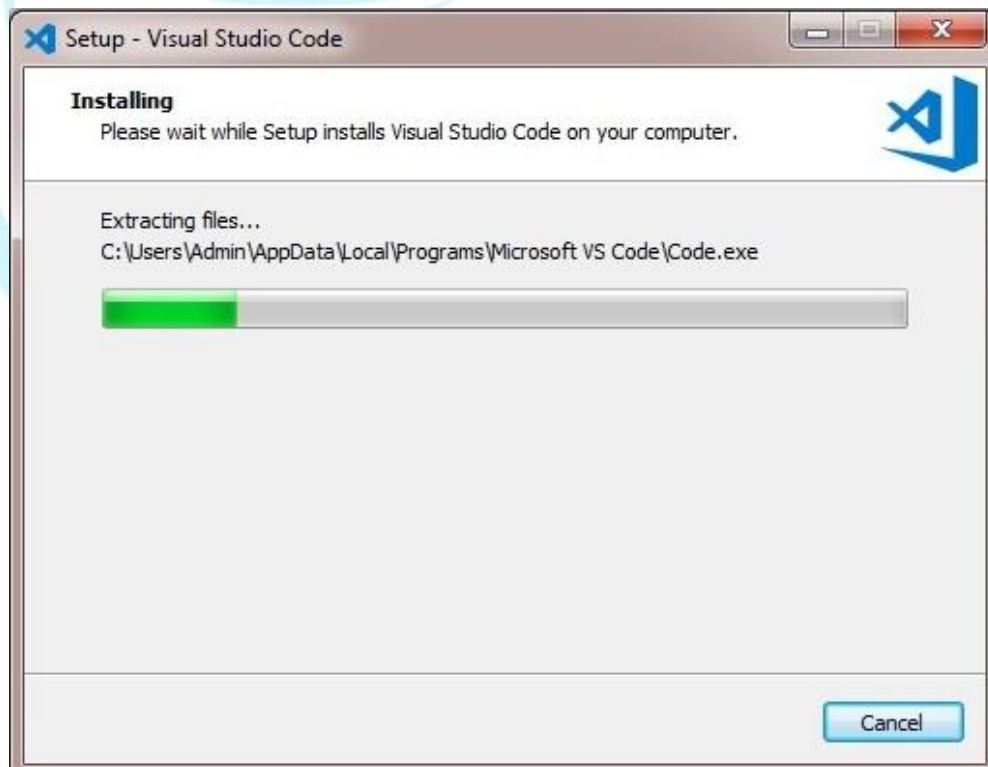
5) Select Additional Tasks, Check the box to **create desktop icon**



6) Ready to **Install**



7) Installing

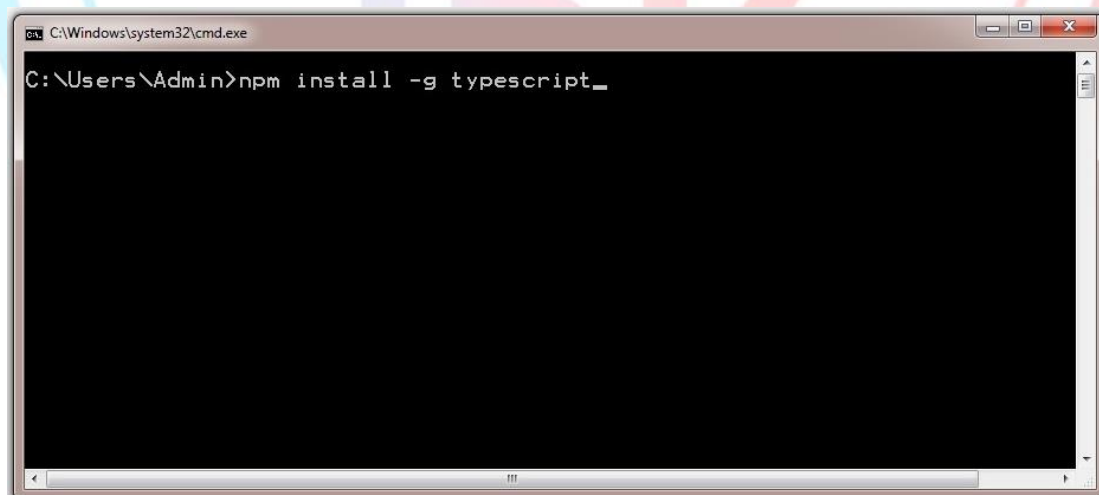


8) Completing Visual Studio Code Setup Wizard & then Restart PC

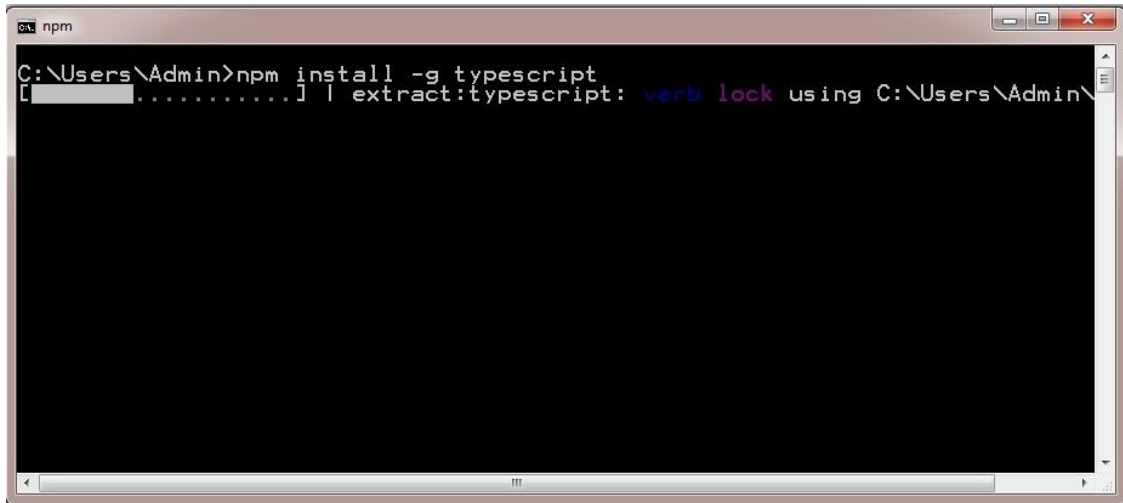


Typescript Installation

- 1) Open CMD & enter the command ensure that internet is connected

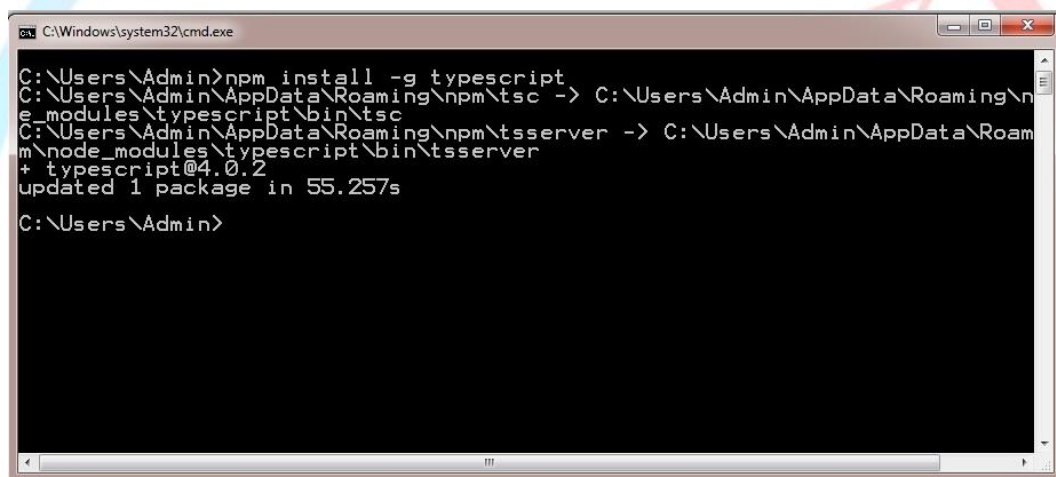


- 2) Installing typescript



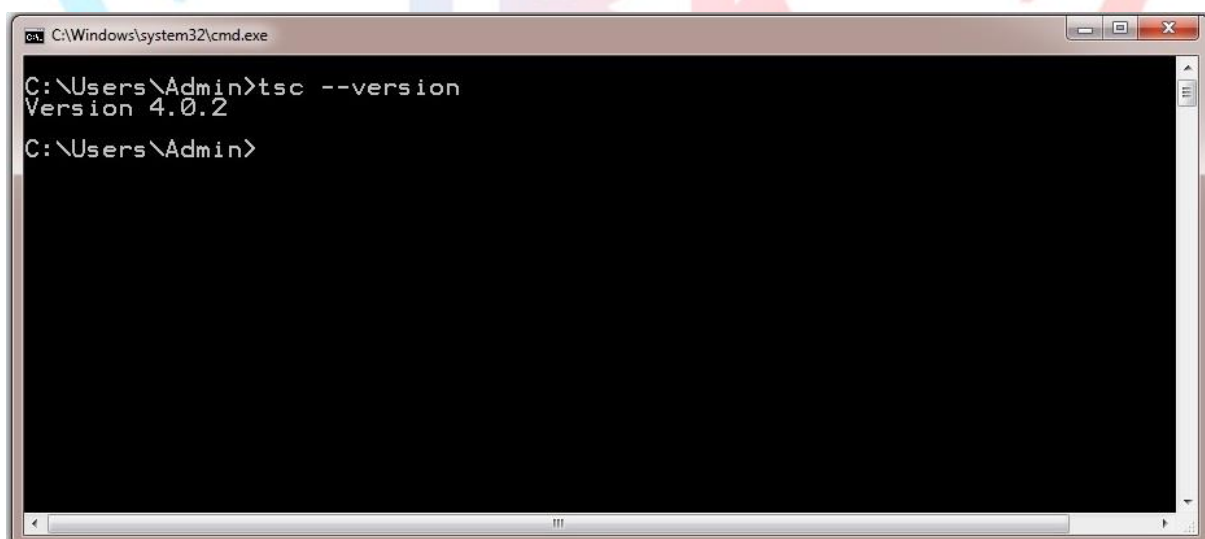
```
C:\Users\Admin>npm install -g typescript
[.....] | extract:typescript: verb lock using C:\Users\Admin\
```

3) Typescript Installed



```
C:\Windows\system32\cmd.exe
C:\Users\Admin>npm install -g typescript
C:\Users\Admin\AppData\Roaming\npm\tsc -> C:\Users\Admin\AppData\Roaming\node_modules\typescript\bin\tsc
C:\Users\Admin\AppData\Roaming\npm\tsserver -> C:\Users\Admin\AppData\Roaming\node_modules\typescript\bin\tsserver
+ typescript@4.0.2
updated 1 package in 55.257s
C:\Users\Admin>
```

4) Check the Typescript Version

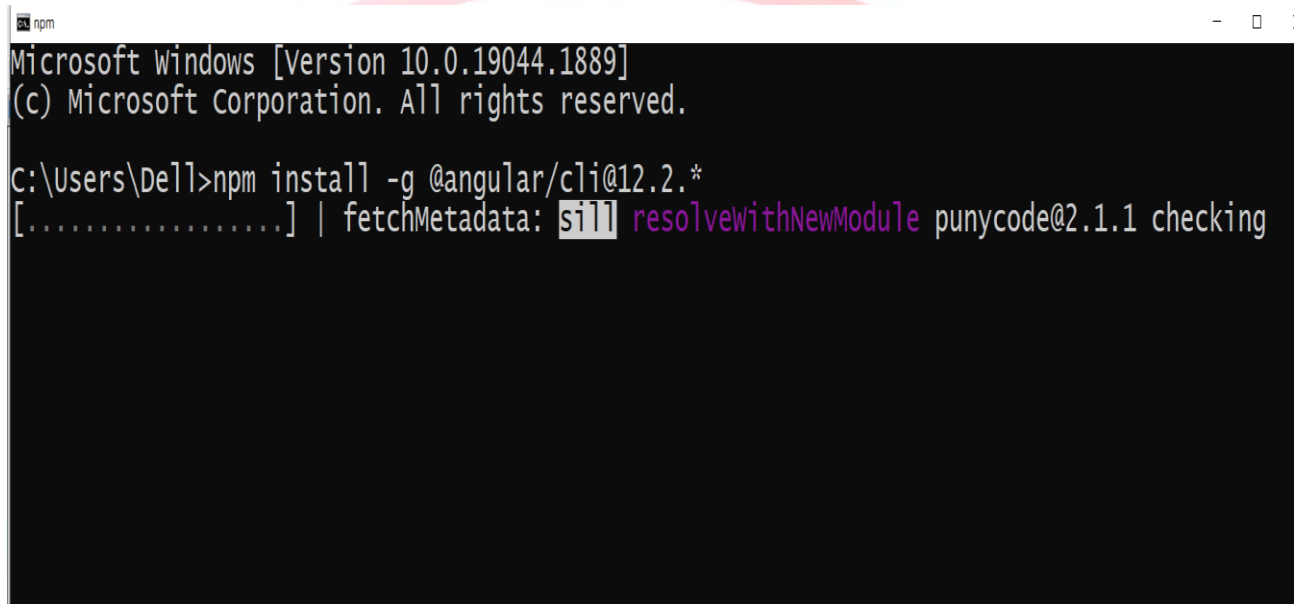


```
C:\Windows\system32\cmd.exe
C:\Users\Admin>tsc --version
Version 4.0.2
C:\Users\Admin>
```

Angular 12 Installation

1) open CMD first and Close other application if any open (e.g vscode, eclipse, server (mysql,oracle))

`npm install -g @angular/cli@12.2.*`



```
Microsoft Windows [Version 10.0.19044.1889]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Dell>npm install -g @angular/cli@12.2.*
[.....] | fetchMetadata: sill resolveWithNewModule punycode@2.1.1 checking
```

Note:

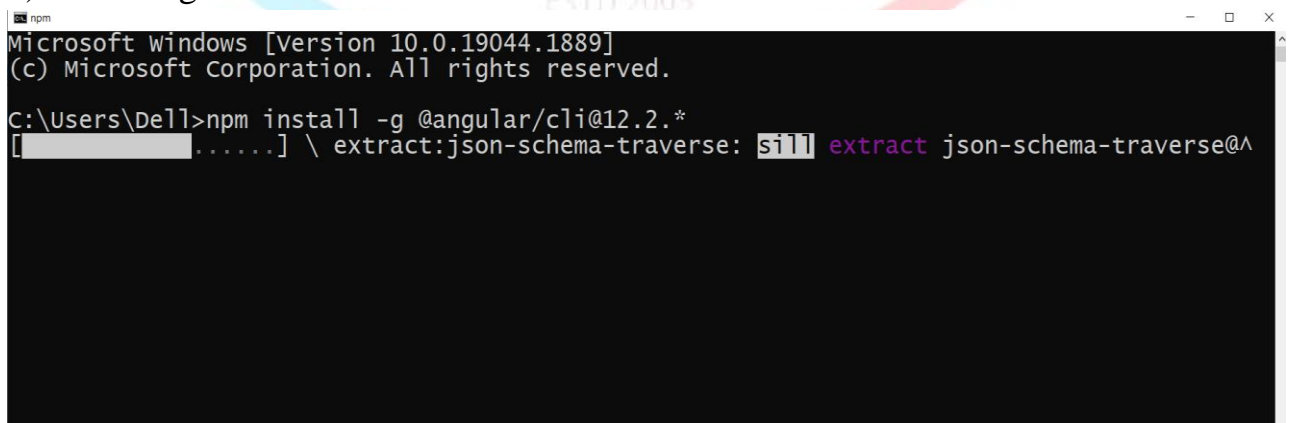
if any error occur then use as below Command

`npm cache clear --force`

`npm cache verify`

But when using these command ensure that your net is disconnect then hit the above command

2) Installing



```
Microsoft Windows [Version 10.0.19044.1889]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Dell>npm install -g @angular/cli@12.2.*
[.....] \ extract:json-schema-traverse: sill extract json-schema-traverse@
```

2) Angular 8 Installed

```
Command Prompt
Microsoft Windows [Version 10.0.19044.1889]
(c) Microsoft Corporation. All rights reserved.

C:\Users\De11>npm install -g @angular/cli@12.2.*
C:\Users\De11\AppData\Roaming\npm\ng -> C:\Users\De11\AppData\Roaming\npm\node_modules\@angular\cli\bin\ng

> @angular/cli@12.2.18 postinstall C:\Users\De11\AppData\Roaming\npm\node_modules\@angular\cli
> node ./bin/postinstall/script.js

+ @angular/cli@12.2.18
added 184 packages from 154 contributors in 36.556s

C:\Users\De11>
```

4) check version of Angular Installation as below Command ng --version

```
Select Command Prompt

Angular CLI

Angular CLI: 12.2.18
Node: 14.15.1
Package Manager: npm 6.14.8
OS: win32 x64

Angular: undefined
...

Package      Version
-----
@angular-devkit/architect    0.1202.18 (cli-only)
@angular-devkit/core         12.2.18 (cli-only)
@angular-devkit/schematics   12.2.18 (cli-only)
@schematics/angular          12.2.18 (cli-only)
typescript                   4.8.2
```

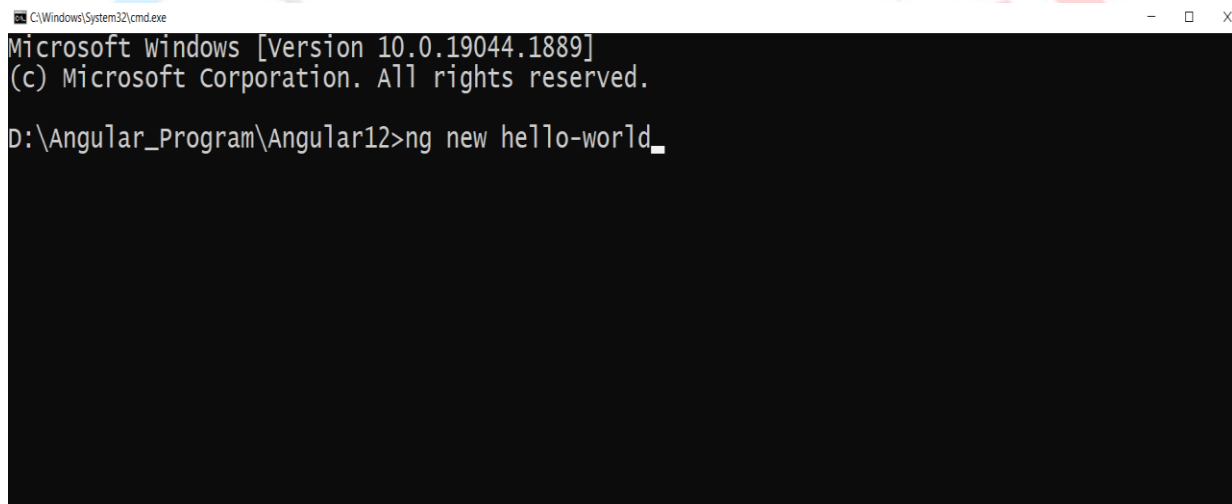

5) Now Create directory For **FrontEnd->Angular** (name whatever you want u can give), also create directory in any drive whatever you want

Now open command prompt and go to that created directory in cmd

Now you pointed your created directory (as you created directory)

6) For Create new Project in Angular enter the command as below Command
ng new hello-world

Note: Do not use space() or underscore(_) or any special character in project name, hyphen (-) is allowed in project name. Only First Time Project Creation internet is required.

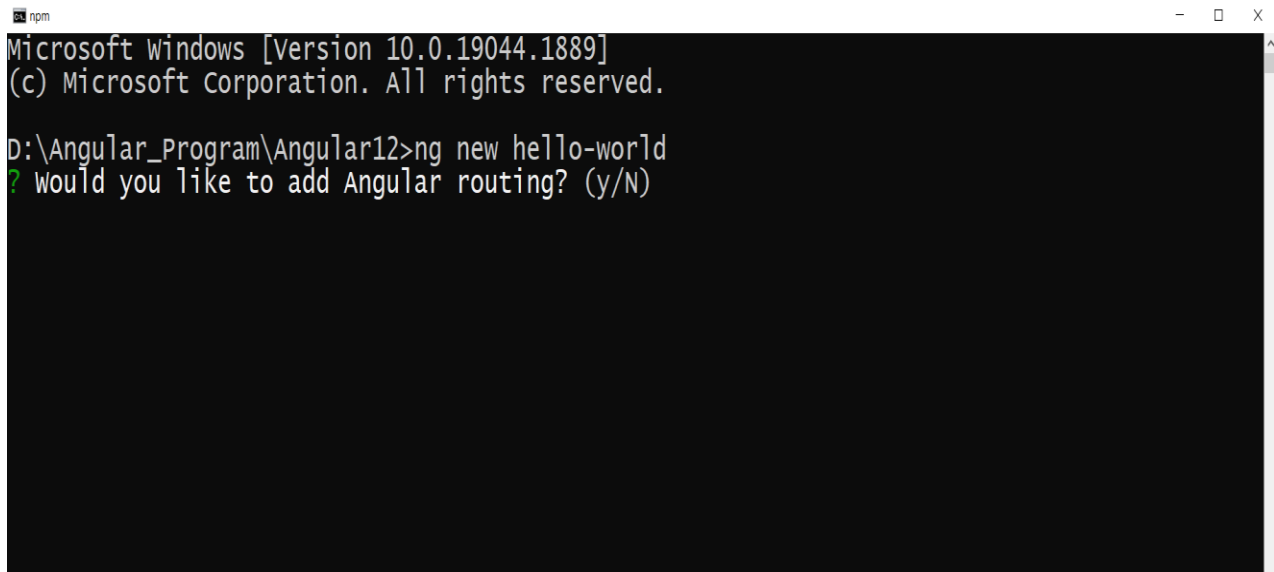


```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19044.1889]
(c) Microsoft Corporation. All rights reserved.

D:\Angular_Program\Angular12>ng new hello-world_
```

7) After Hit above command it Ask Below Question

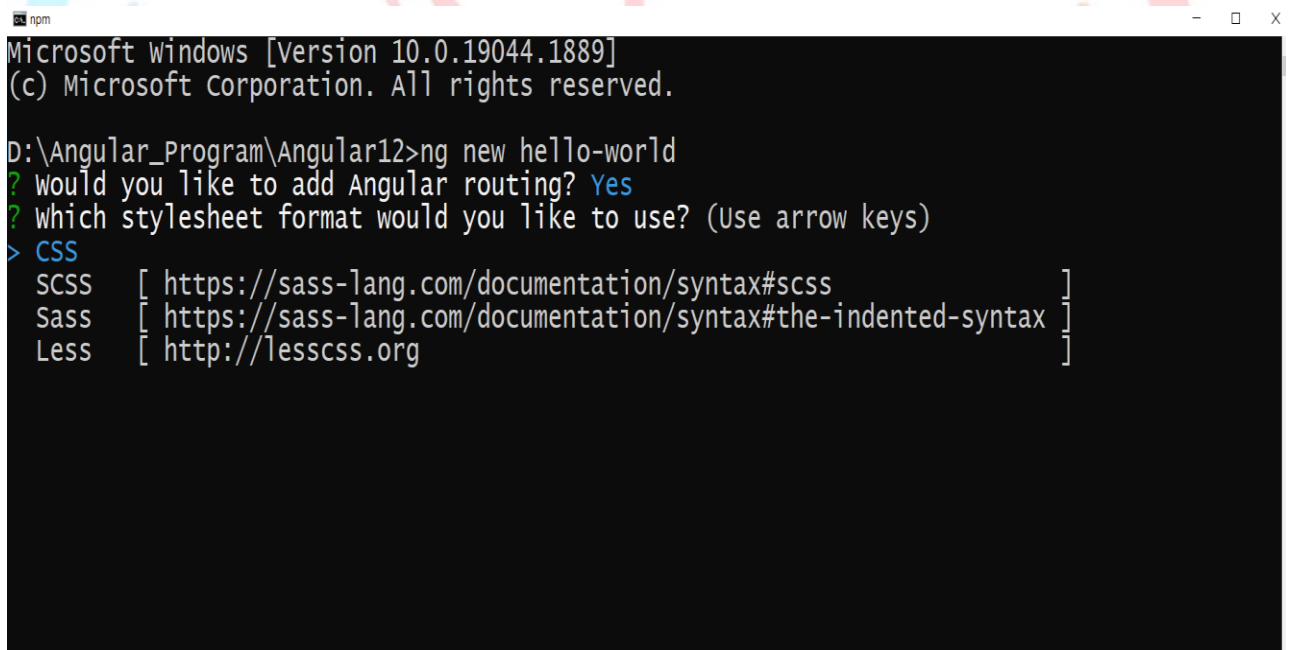
Which you like to add angular routing? y (hit enter)



```
Microsoft Windows [Version 10.0.19044.1889]
(c) Microsoft Corporation. All rights reserved.

D:\Angular_Program\Angular12>ng new hello-world
? Would you like to add Angular routing? (y/N)
```

8) After Hit above command it Ask next Question
Which stylesheet format would you like? (hit eneter)



```
Microsoft Windows [Version 10.0.19044.1889]
(c) Microsoft Corporation. All rights reserved.

D:\Angular_Program\Angular12>ng new hello-world
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? (Use arrow keys)
> CSS
  SCSS  [ https://sass-lang.com/documentation/syntax#scss ]
  Sass  [ https://sass-lang.com/documentation/syntax#the-indented-syntax ]
  Less  [ http://lesscss.org ]
```

9) Now Creating Project starts its download the repository from their site to
your local machine, you required Internet for first time create a project

```
npm
CREATE hello-world/.gitignore (604 bytes)
CREATE hello-world/.browserslistrc (703 bytes)
CREATE hello-world/karma.conf.js (1428 bytes)
CREATE hello-world/tsconfig.app.json (287 bytes)
CREATE hello-world/tsconfig.spec.json (333 bytes)
CREATE hello-world/src/favicon.ico (948 bytes)
CREATE hello-world/src/index.html (296 bytes)
CREATE hello-world/src/main.ts (372 bytes)
CREATE hello-world/src/polyfills.ts (2820 bytes)
CREATE hello-world/src/styles.css (80 bytes)
CREATE hello-world/src/test.ts (788 bytes)
CREATE hello-world/src/assets/.gitkeep (0 bytes)
CREATE hello-world/src/environments/environment.prod.ts (51 bytes)
CREATE hello-world/src/environments/environment.ts (658 bytes)
CREATE hello-world/src/app/app-routing.module.ts (245 bytes)
CREATE hello-world/src/app/app.module.ts (393 bytes)
CREATE hello-world/src/app/app.component.html (24617 bytes)
CREATE hello-world/src/app/app.component.spec.ts (1088 bytes)
CREATE hello-world/src/app/app.component.ts (215 bytes)
CREATE hello-world/src/app/app.component.css (0 bytes)
| Installing packages (npm)...
```

10) successfully creation of Project

```
C:\Windows\System32\cmd.exe
CREATE hello-world/src/environments/environment.prod.ts (51 bytes)
CREATE hello-world/src/environments/environment.ts (658 bytes)
CREATE hello-world/src/app/app-routing.module.ts (245 bytes)
CREATE hello-world/src/app/app.module.ts (393 bytes)
CREATE hello-world/src/app/app.component.html (24617 bytes)
CREATE hello-world/src/app/app.component.spec.ts (1088 bytes)
CREATE hello-world/src/app/app.component.ts (215 bytes)
CREATE hello-world/src/app/app.component.css (0 bytes)
✓ Packages installed successfully.
warning: LF will be replaced by CRLF in .browserslistrc.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in .editorconfig.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in .gitignore.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in README.md.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in angular.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in karma.conf.js.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in package-lock.json.
```

```
C:\Windows\System32\cmd.exe
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in tsconfig.app.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in tsconfig.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in tsconfig.spec.json.
The file will have its original line endings in your working directory
Author identity unknown

*** Please tell me who you are.

Run

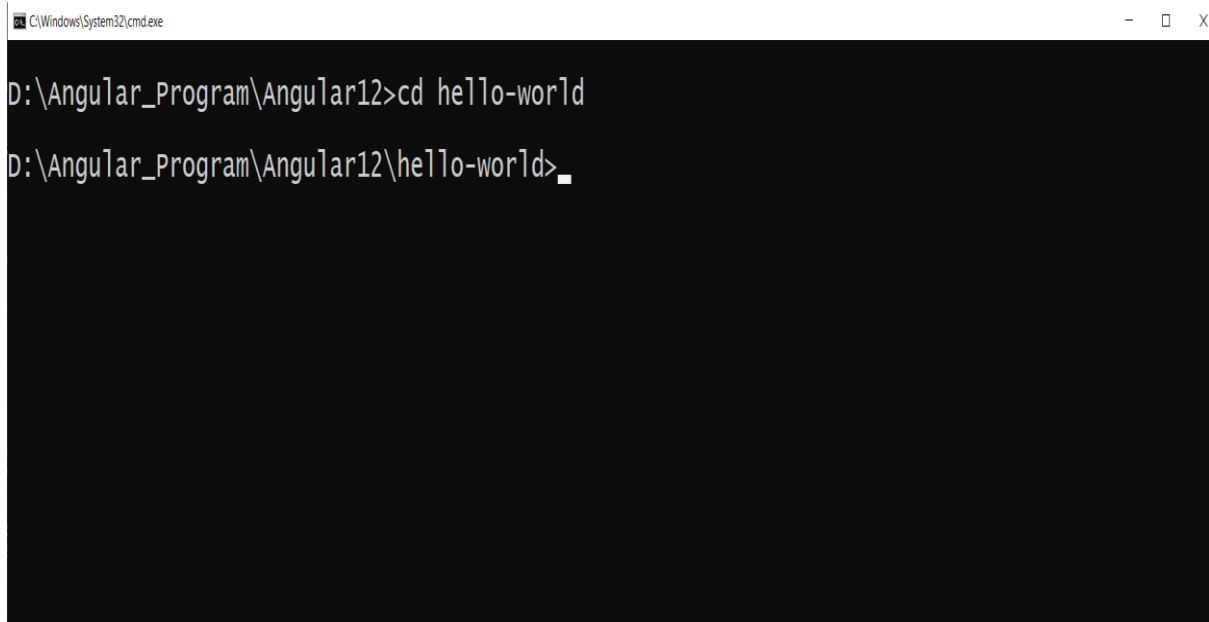
  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'Dell@DESKTOP-KIB92T8.(none)')
D:\Angular_Program\Angular12>
```

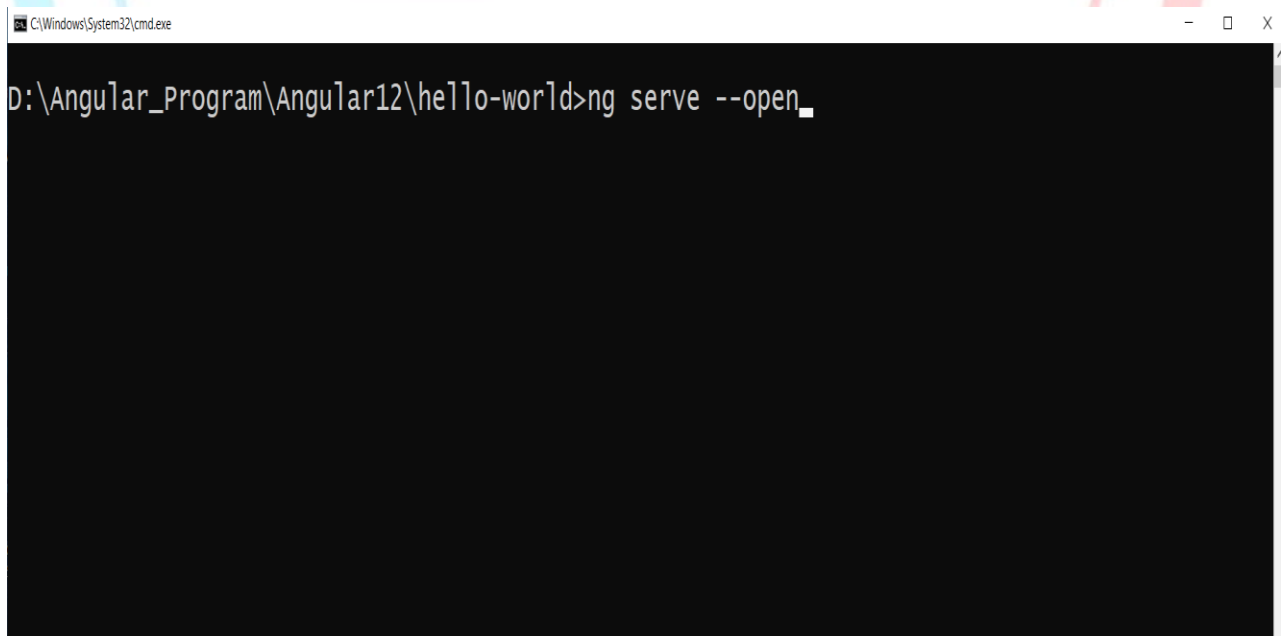
11) After successfully creation of Project now again go to your project hello-world in cmd to point your created Project and hit the **for e.g d:/frontend/angular>cd hello-world** then your cmd pointed to **d:/frontend/angular/hello-world>**

```
C:\Windows\System32\cmd.exe
D:\Angular_Program\Angular12>cd hello-world_
```



```
C:\Windows\System32\cmd.exe
D:\Angular_Program\Angular12>cd hello-world
D:\Angular_Program\Angular12\hello-world>.
```

12) now to run 1st angular project for that to hit command
ng serve --open
or
ng serve -o



```
C:\Windows\System32\cmd.exe
D:\Angular_Program\Angular12\hello-world>ng serve --open.
```

13) Compilation Process Start

```
ngcc (worker)
D:\Angular_Program\Angular12\hello-world>ng serve --open
- Generating browser application bundles (phase: setup)...Compiling @angular/core : es2015 as esm2015
Compiling @angular/common : es2015 as esm2015
-
```

14) Compiled Successfully

```
Windows PowerShell
polyfills.js | polyfills | 469.22 kB
styles.css, styles.js | styles | 344.96 kB
main.js | main | 57.19 kB
runtime.js | runtime | 6.62 kB

| Initial Total | 3.21 MB

Build at: 2022-08-26T13:32:26.157Z - Hash: dc610c127bf6d493bac9 - Time: 12281ms

** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **

✓ Compiled successfully.
✓ Browser application bundle generation complete.

5 unchanged chunks

Build at: 2022-08-26T13:32:27.251Z - Hash: 56f72d533013c148a996 - Time: 619ms

✓ Compiled successfully.
```

15) After successful Compiled its open browser automatically --->
<http://localhost:4200/>

