
Node Js, VScode, Typescript and Angular 8 Installation

Screen Shots

Author: Sumit Raokhande

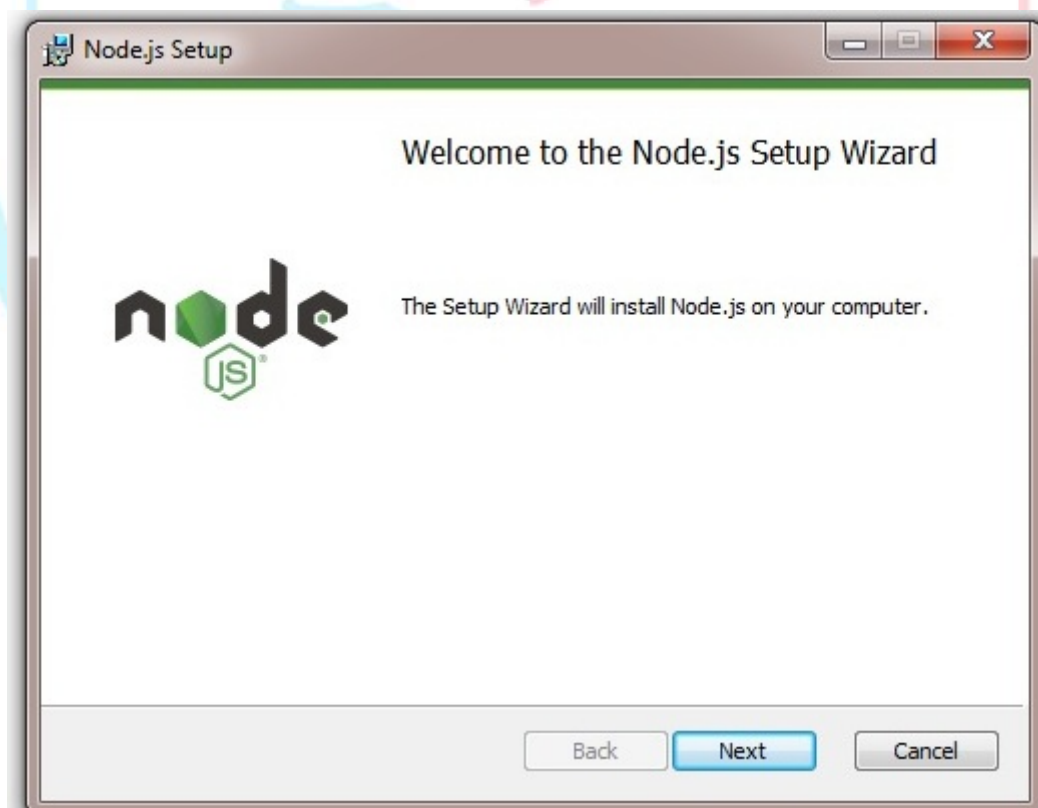
ESTD 2005

Node Js Installation

1) Double Click on **node-v12.18.3-x64.msi**, Click on Run



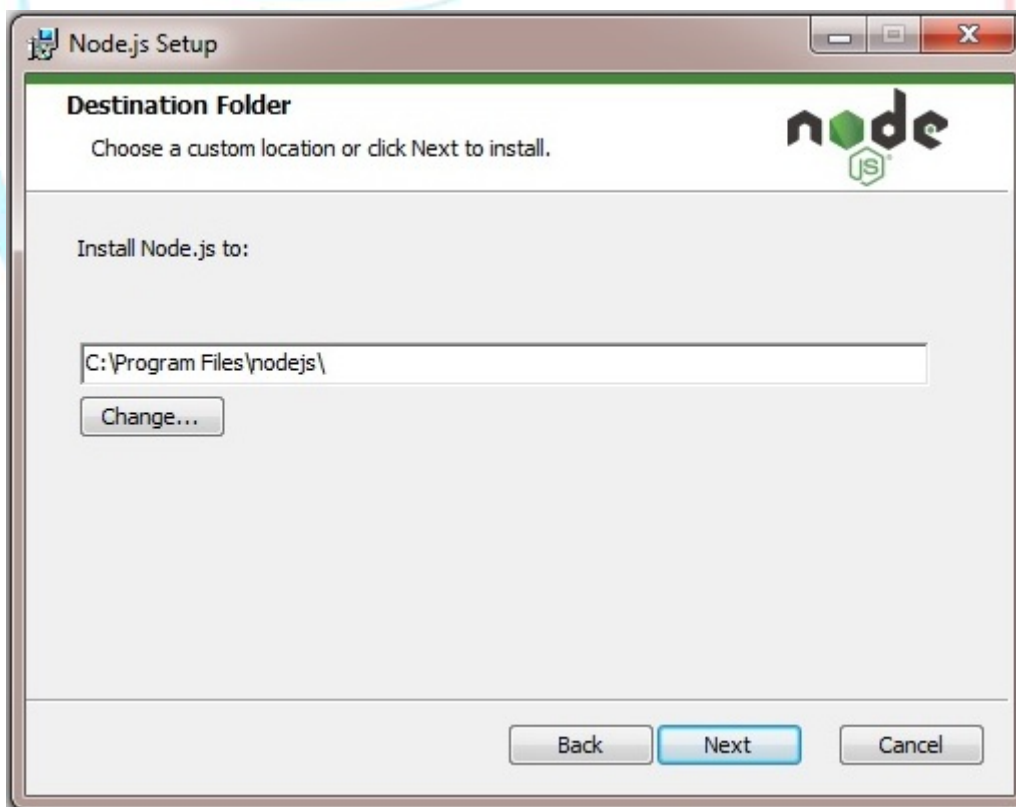
2) Click on next



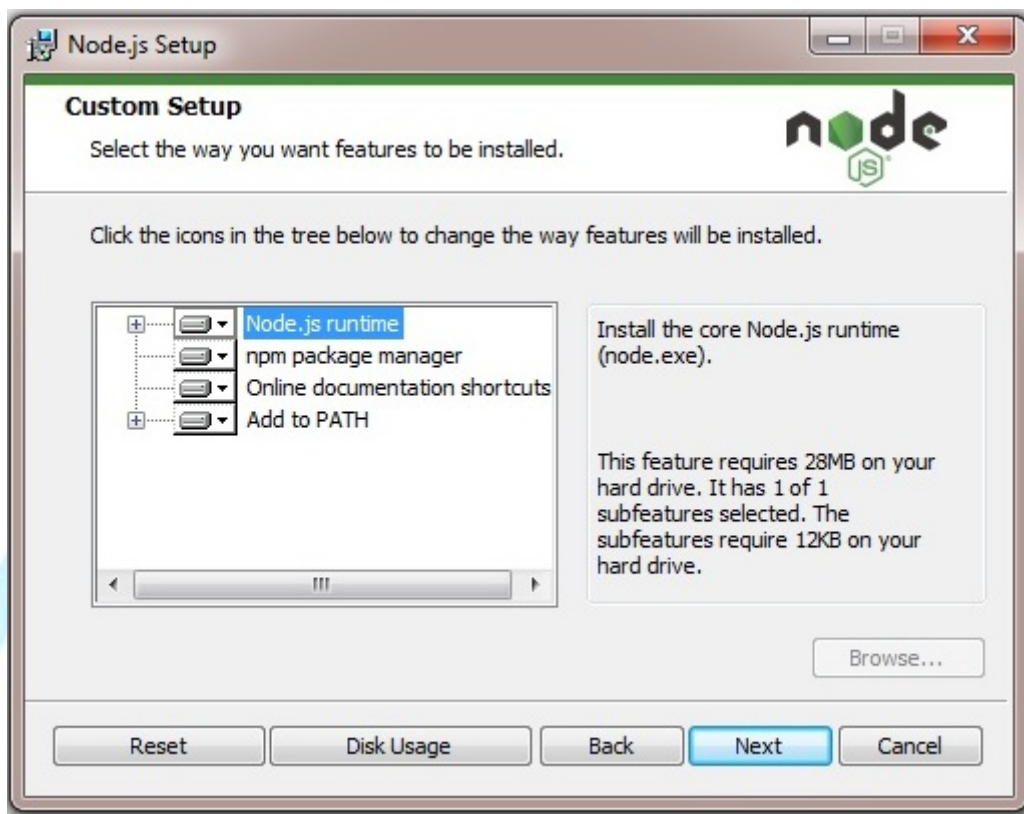
3) Check **I accept the terms in the License Agreement** click on next



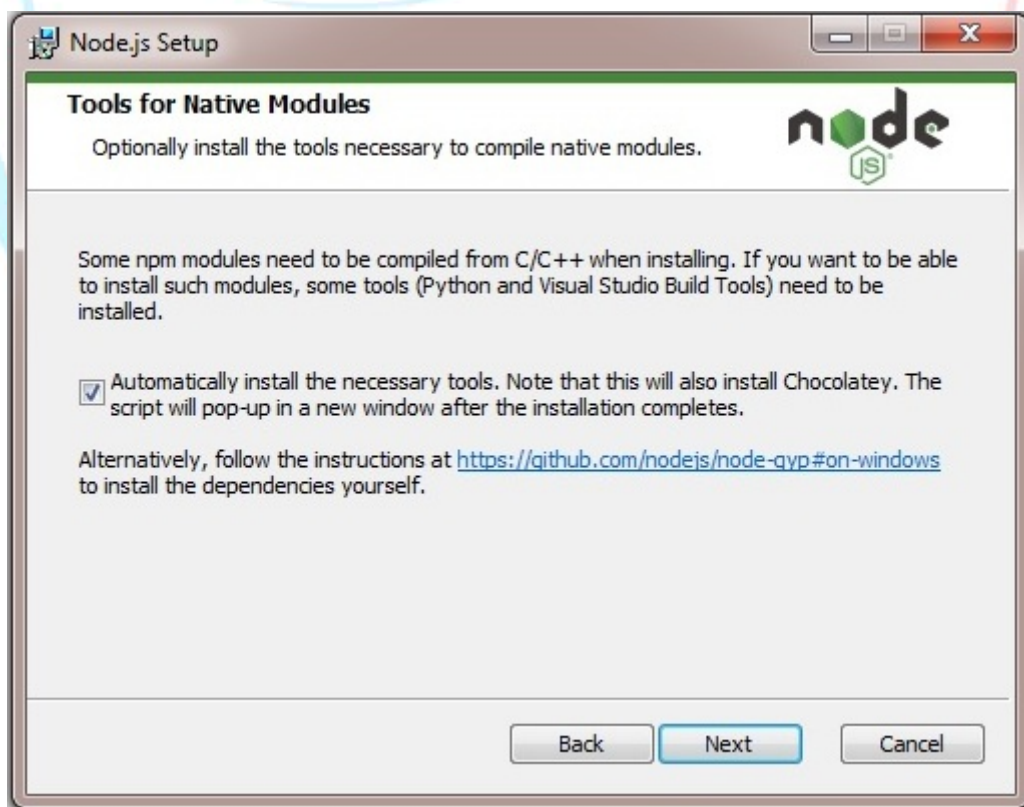
4) Set the **Destination Folder** where you want to install Node.js & Select **Next**



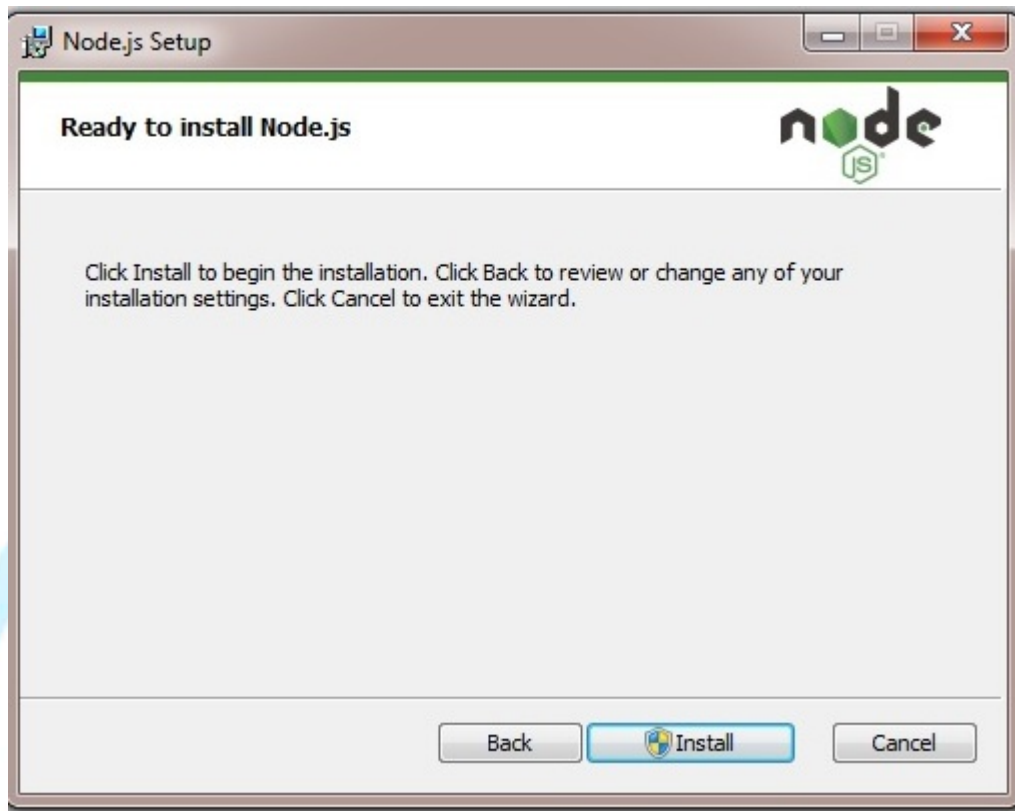
5) Select Next



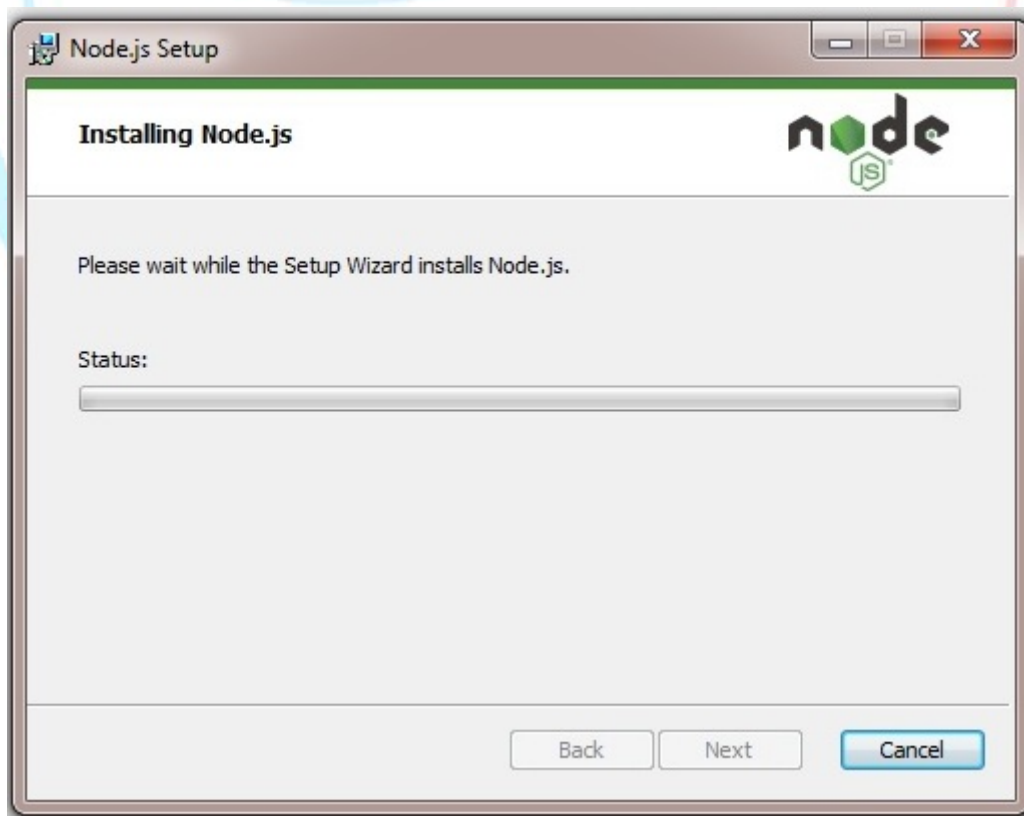
6) Select Next



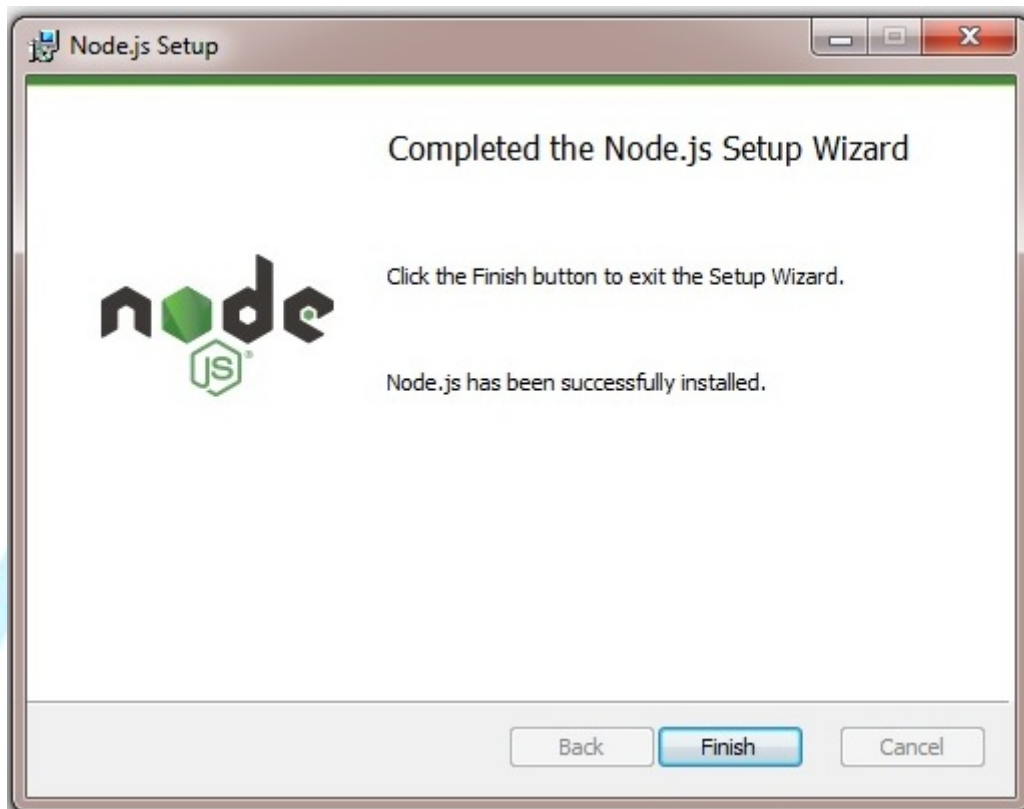
7) Ready to Install



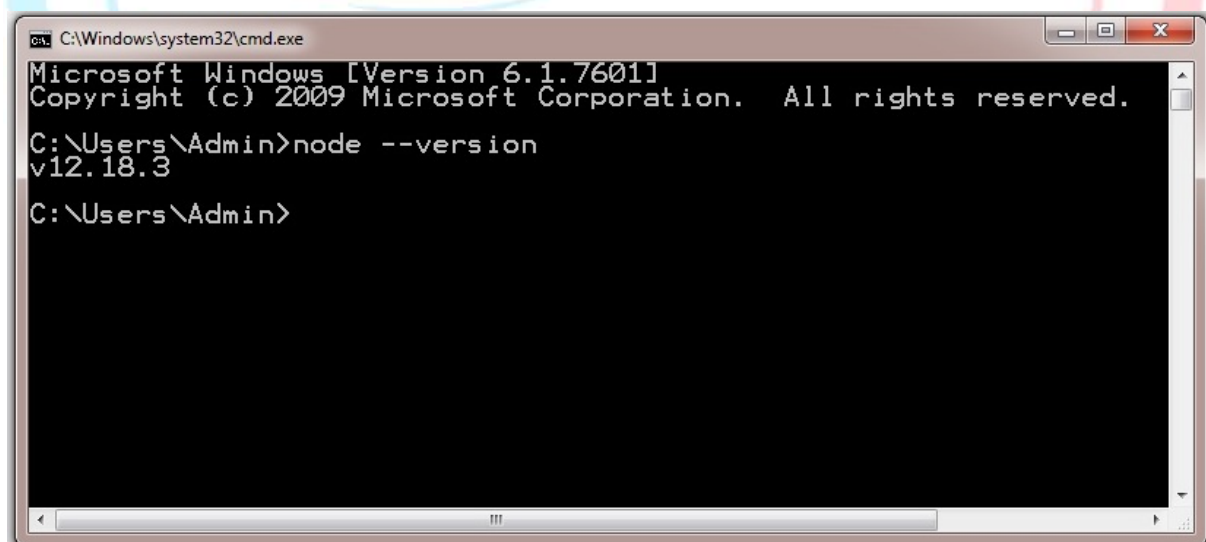
8) Installing Node.js



9) Completed Node.js Setup wizard

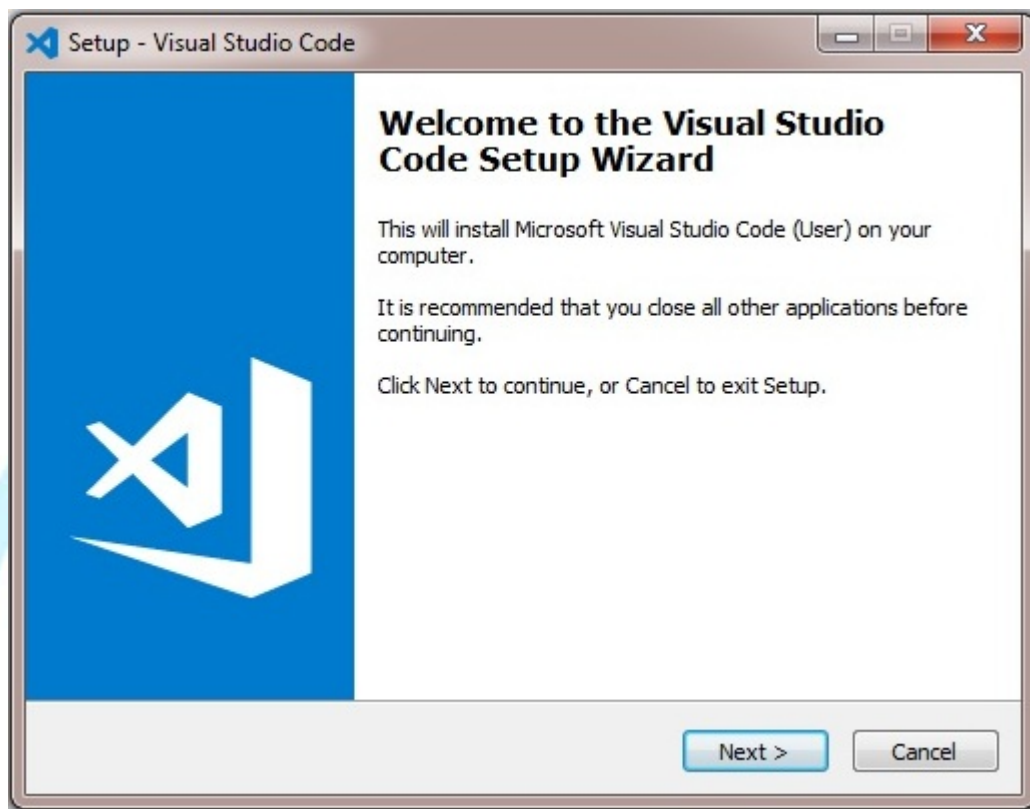


10) Open CMD & check the Version & then Restart PC

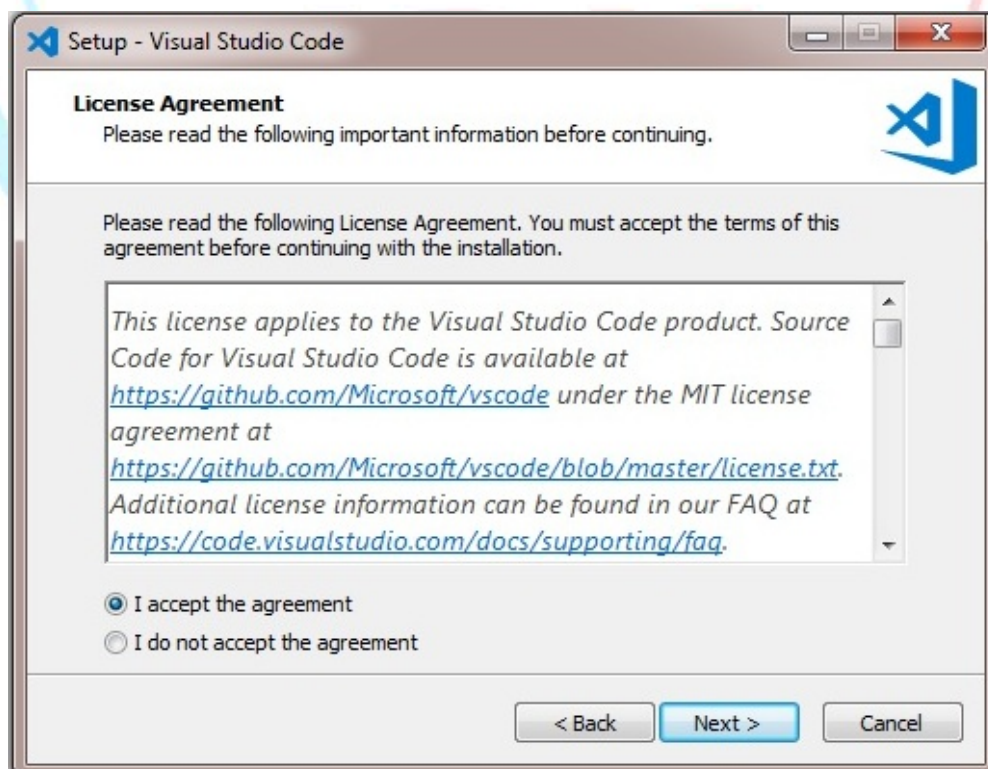


VSCode IDE Installation

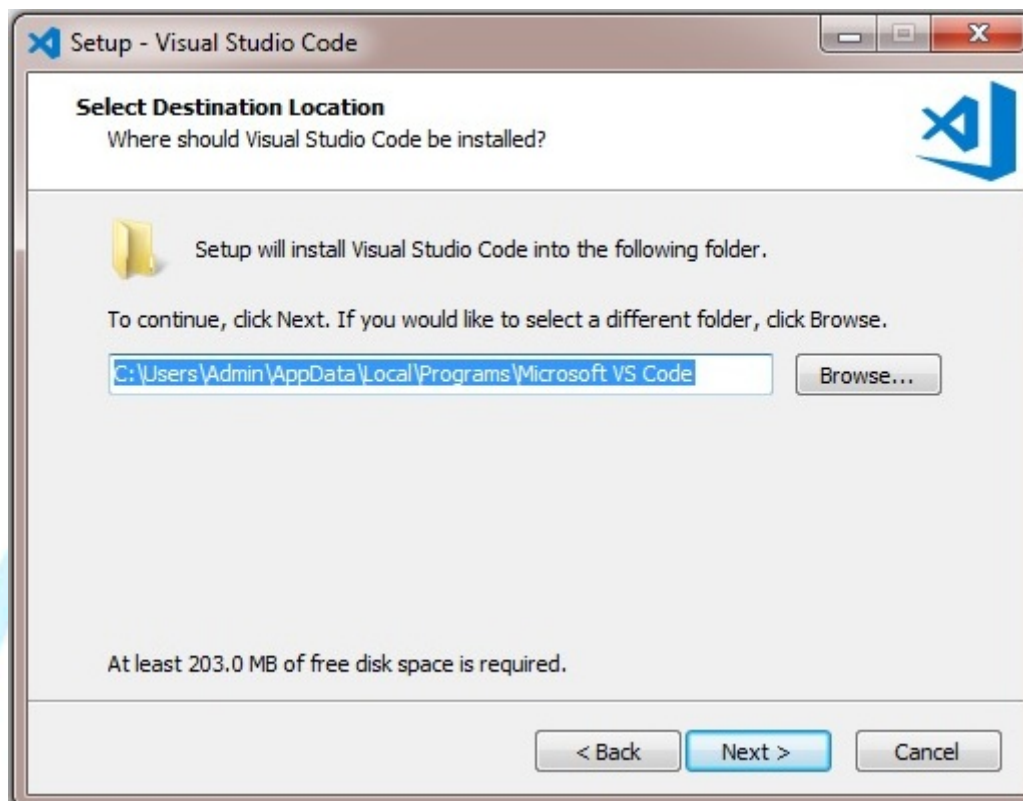
1) Double Click on VSCodeUserSetup-x64-1.32.3



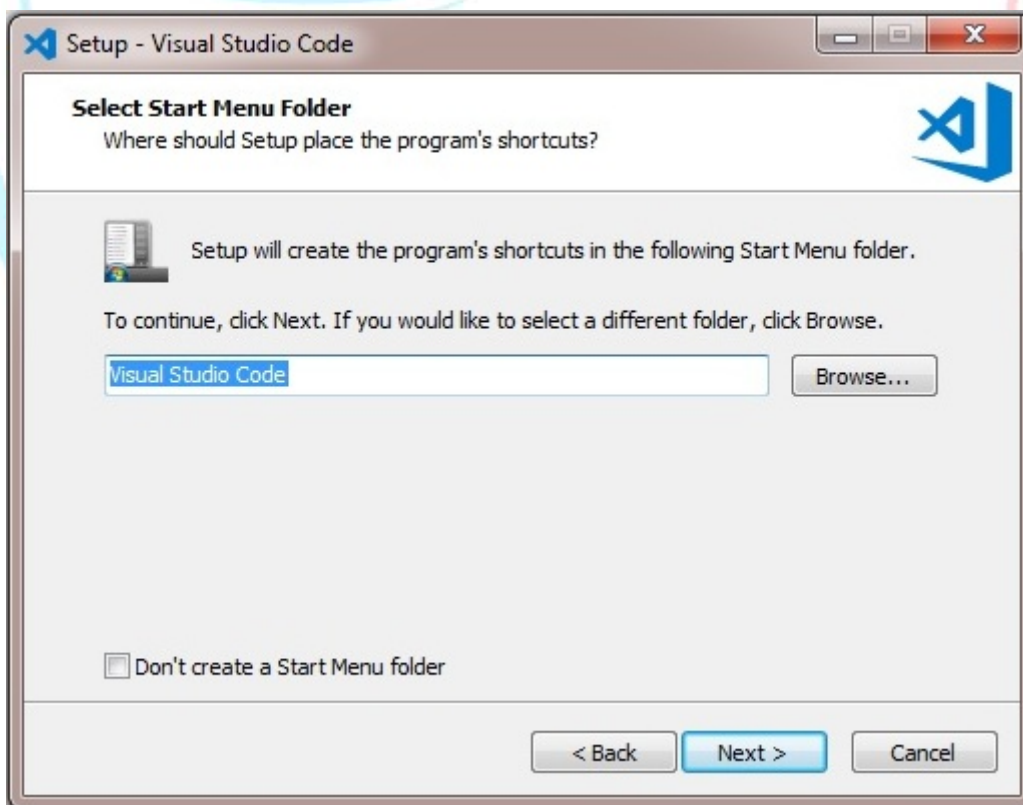
2) Accept **License Agreement**



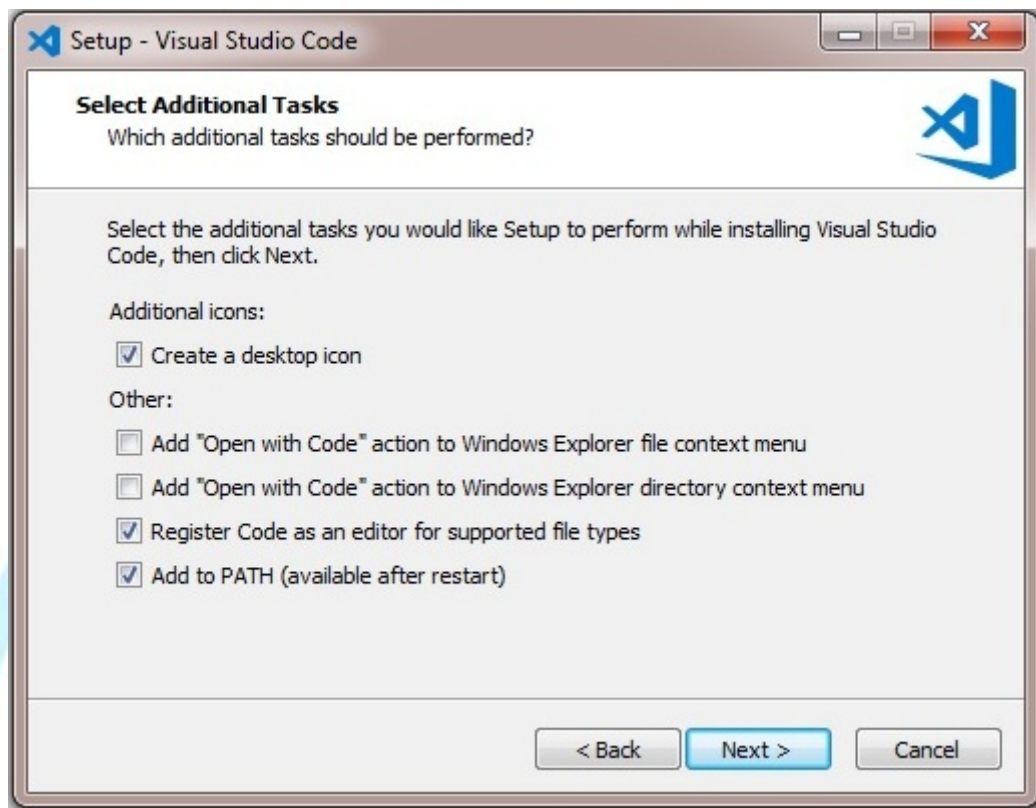
3) Select the **Destination Folder**



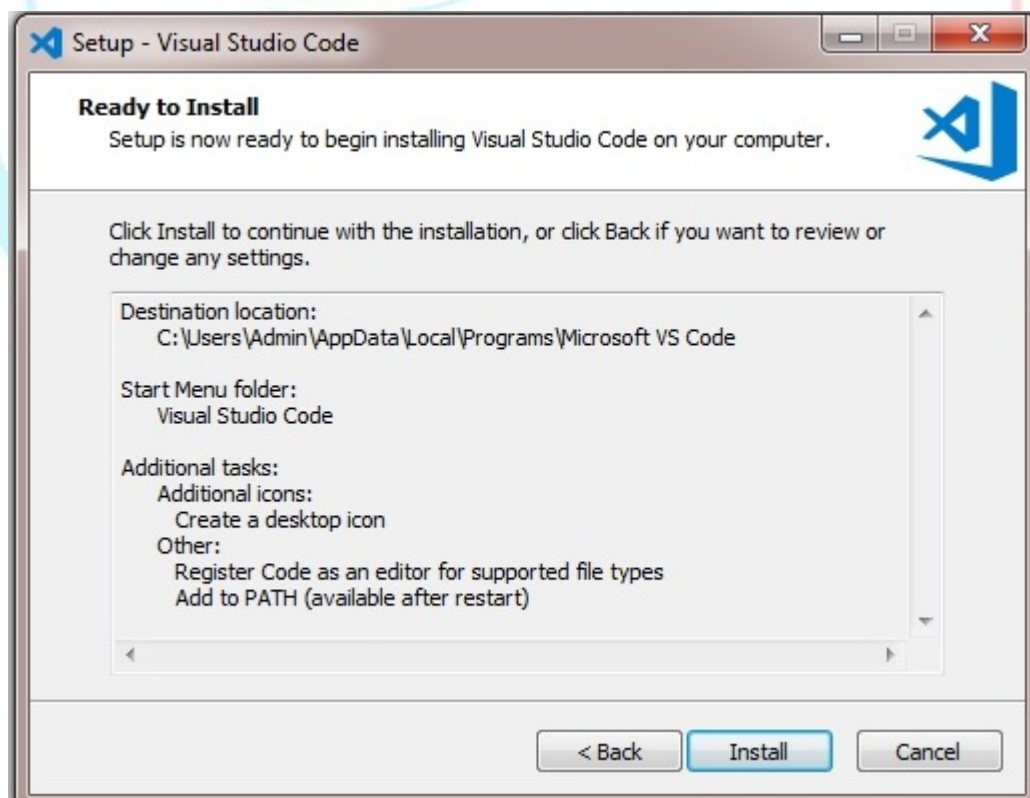
4) Select start Menu Folder



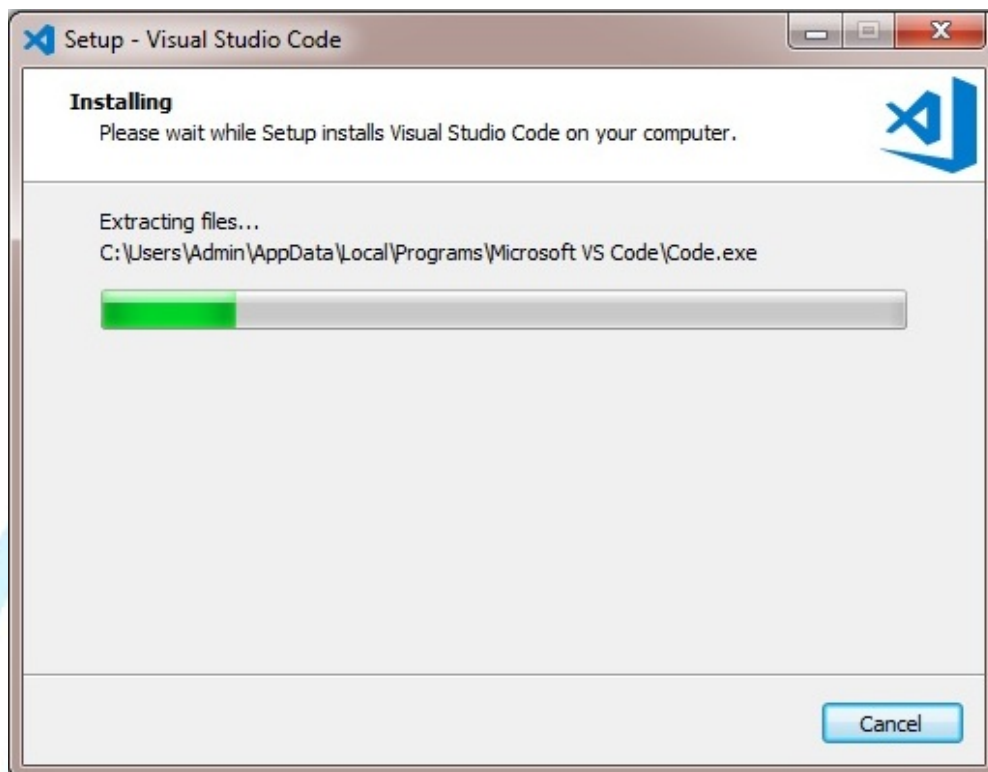
5) Select Additional Tasks, Check the box to **create desktop icon**



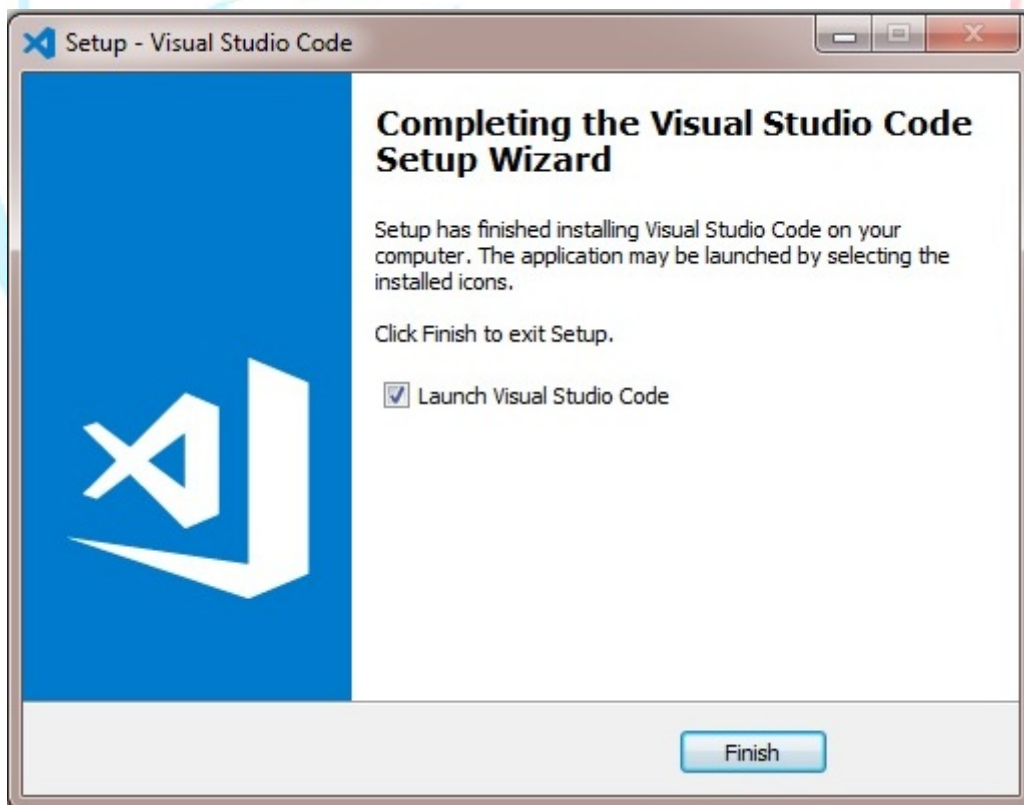
6) Ready to **Install**



7) Installing

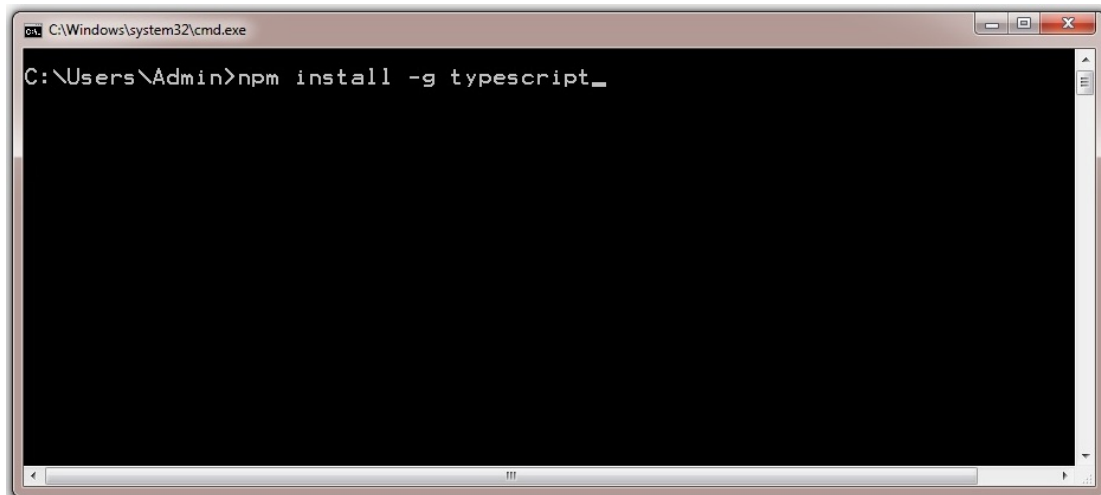


8) Completing Visual Studio Code Setup Wizard & then Restart PC



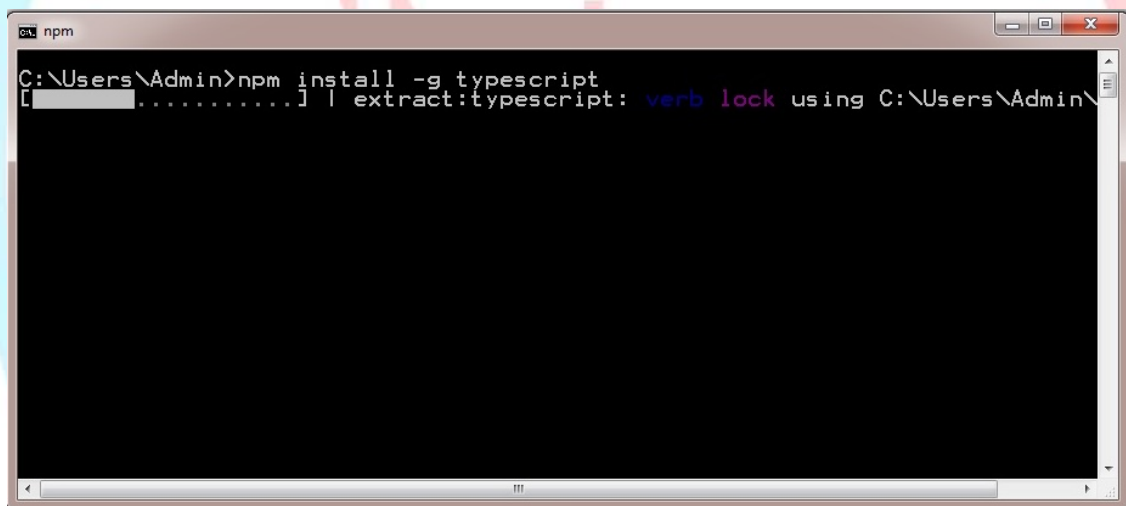
Typescript Installation

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



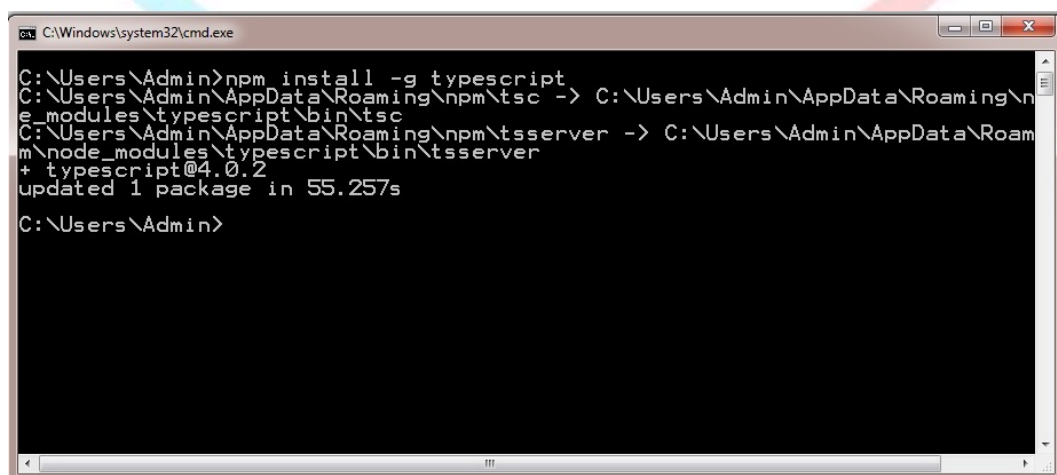
```
C:\Windows\system32\cmd.exe
C:\Users\Admin>npm install -g typescript_
```

- 2) Installing typescript



```
npm
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\n
e_modules\typescript\bin\tsc
C:\Users\Admin\AppData\Roaming\npm\tsserver -> C:\Users\Admin\AppData\Roam
m\node_modules\typescript\bin\tsserver
+ typescript@4.0.2
updated 1 package in 55.257s
C:\Users\Admin>
```

4) Check the Typescript Version



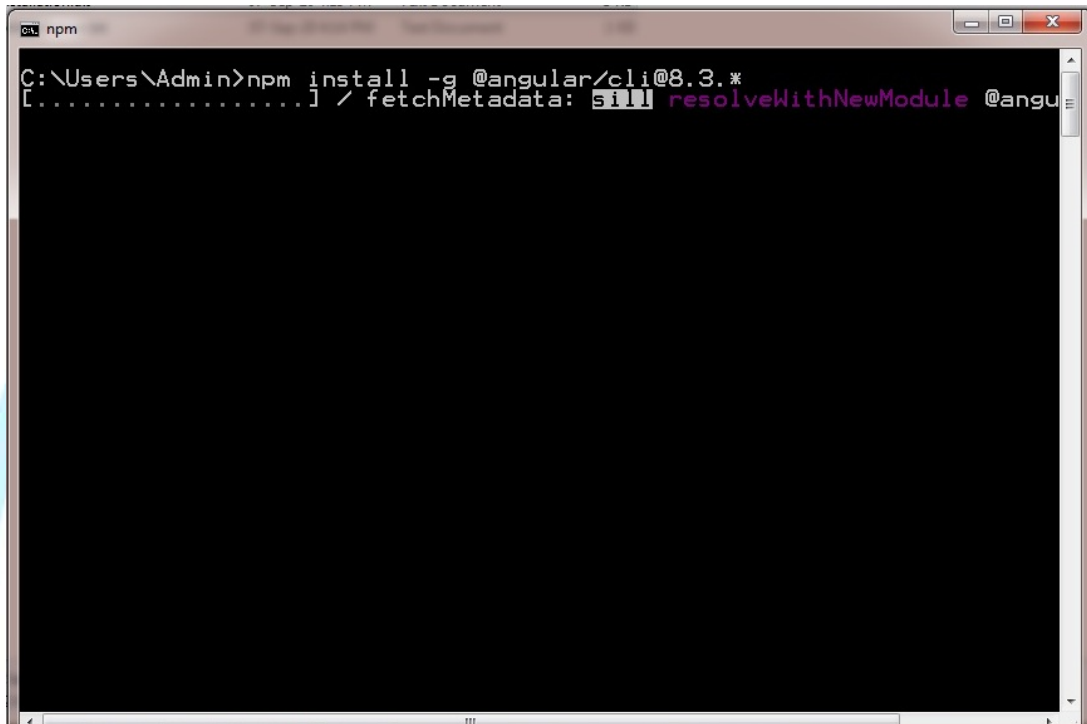
A screenshot of a Windows command prompt window. The title bar reads 'C:\Windows\system32\cmd.exe'. The command prompt shows the following text:
C:\Users\Admin>tsc --version
Version 4.0.2
C:\Users\Admin>



Angular 8 Installation

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

`npm install -g @angular/cli@8.3.*`



```
C:\Users\Admin>npm install -g @angular/cli@8.3.*
[.....] / fetchMetadata: 51111 resolveWithNewModule @angu
```

Note:

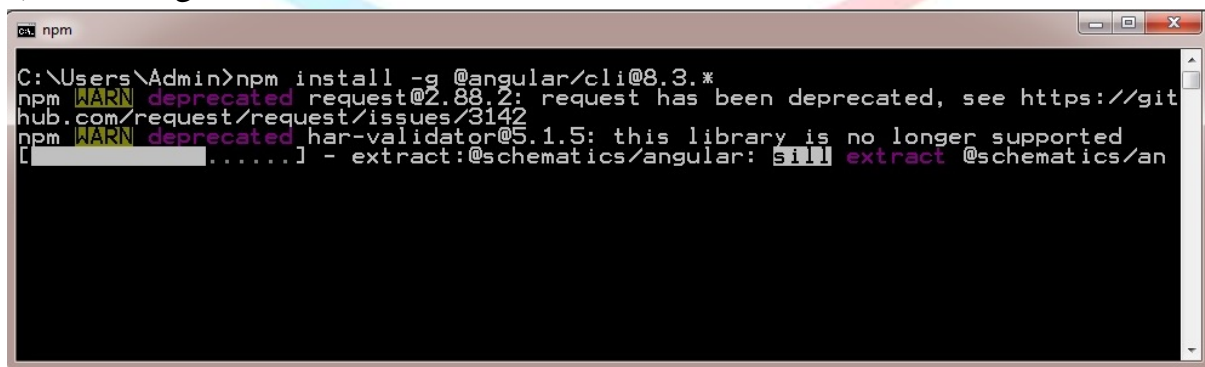
if any error occur then use as below Command

`npm cache clear --force`

`npm cache verify`

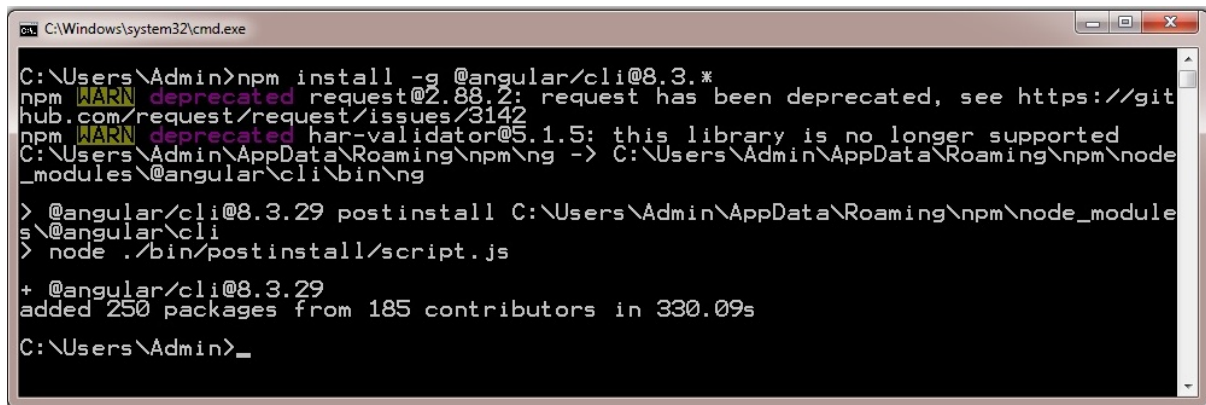
But when using these command ensure that your net is disconnect then hit the above command

2) Installing



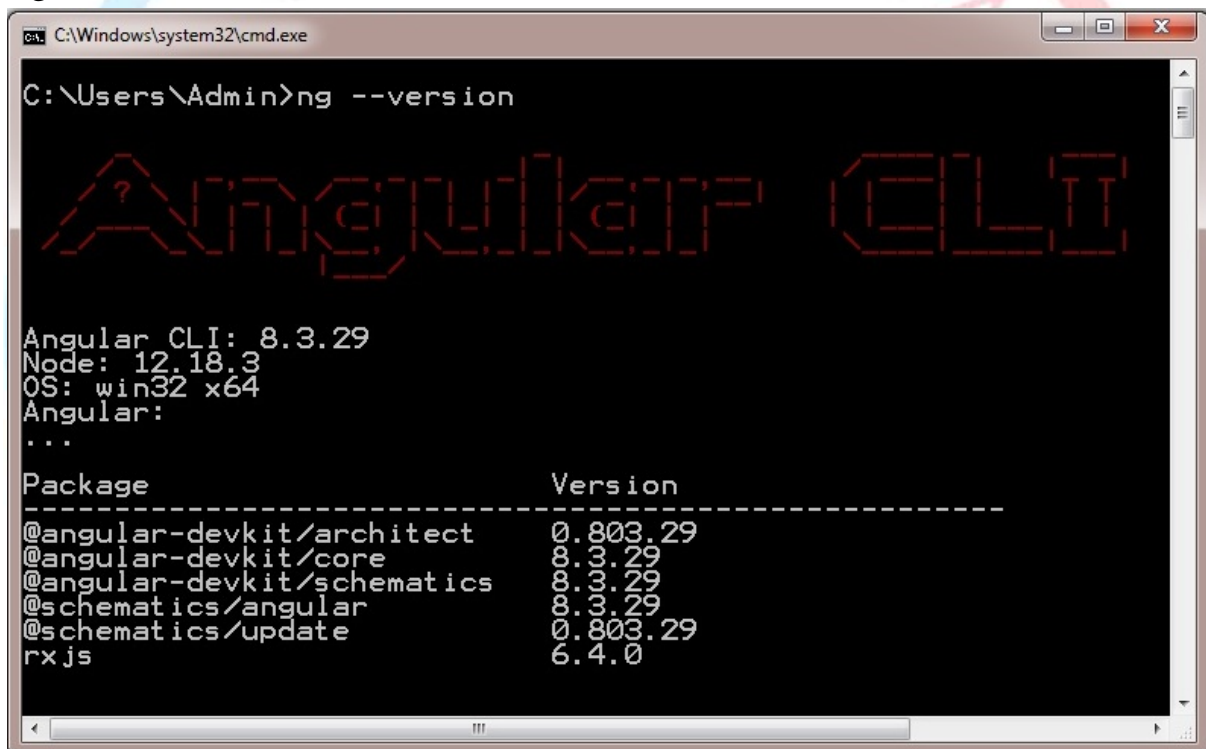
```
C:\Users\Admin>npm install -g @angular/cli@8.3.*
npm WARN deprecated request@2.88.2: request has been deprecated, see https://git
hub.com/request/request/issues/3142
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
[.....] - extract:@schematics/angular: 51111 extract @schematics/an
```


3) Angular 8 Installed



```
C:\Windows\system32\cmd.exe
C:\Users\Admin>npm install -g @angular/cli@8.3.*
npm WARN deprecated request@2.88.2: request has been deprecated, see https://git
hub.com/request/request/issues/3142
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
C:\Users\Admin\AppData\Roaming\npm\ng -> C:\Users\Admin\AppData\Roaming\npm\node
_modules\@angular\cli\bin\ng
> @angular/cli@8.3.29 postinstall C:\Users\Admin\AppData\Roaming\npm\node_module
s\@angular\cli
> node ./bin/postinstall/script.js
+ @angular/cli@8.3.29
added 250 packages from 185 contributors in 330.09s
C:\Users\Admin>_
```

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



```
C:\Windows\system32\cmd.exe
C:\Users\Admin>ng --version

Angular CLI
Angular CLI: 8.3.29
Node: 12.18.3
OS: win32 x64
Angular:
...
Package                                  Version
-----
@angular-devkit/architect                0.803.29
@angular-devkit/core                     8.3.29
@angular-devkit/schematics               8.3.29
@schematics/angular                     8.3.29
@schematics/update                       0.803.29
rxjs                                     6.4.0
```

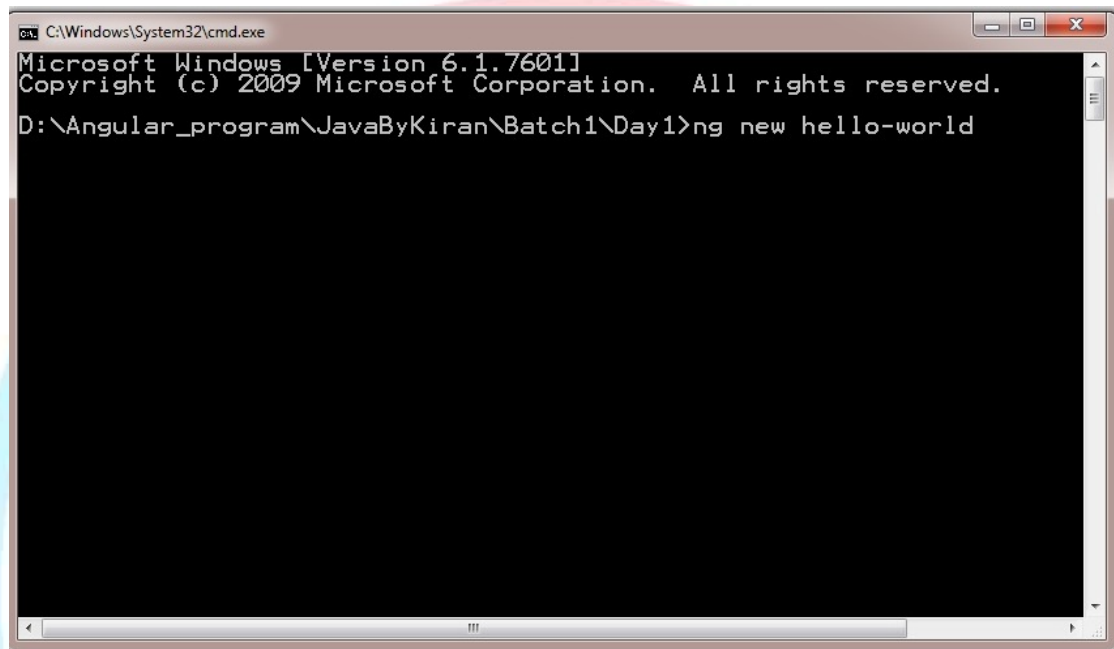
5) Now Create directory For angulePrgm (name whatever you want u can give),also create directory in any drive whatever you want

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

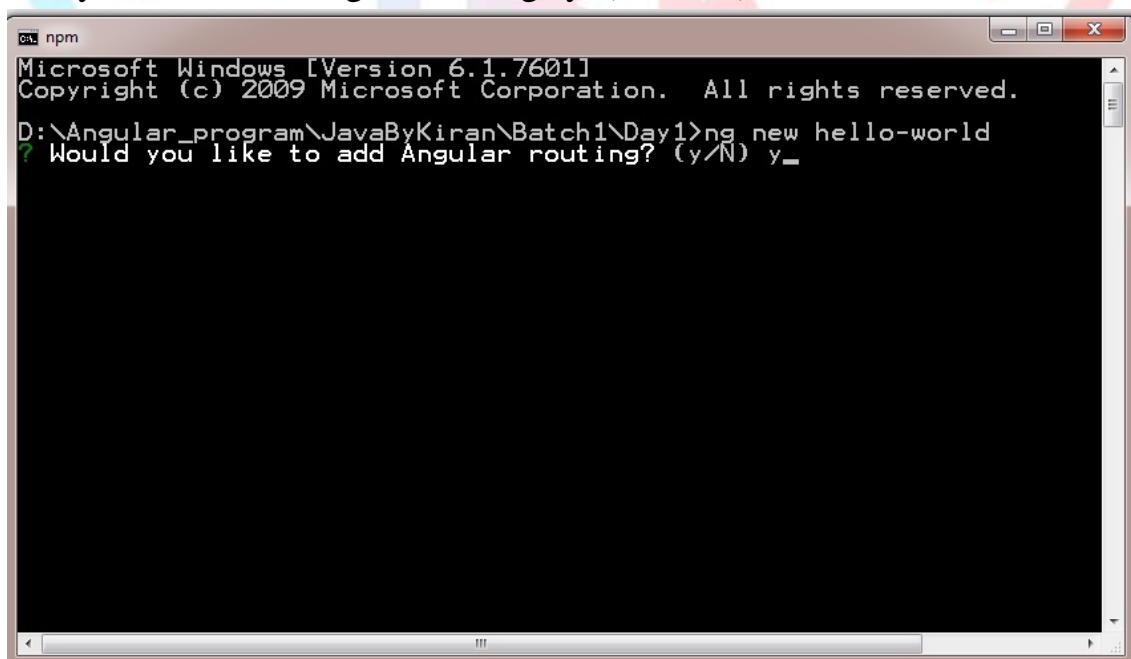
Note: Do not use space() or underscore(_) or any special character in project name, hyphen (-) is allowed in project name. Only First Time Project Creation internet is required.



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
D:\Angular_program\JavaByKiran\Batch1\Day1>ng new hello-world
```

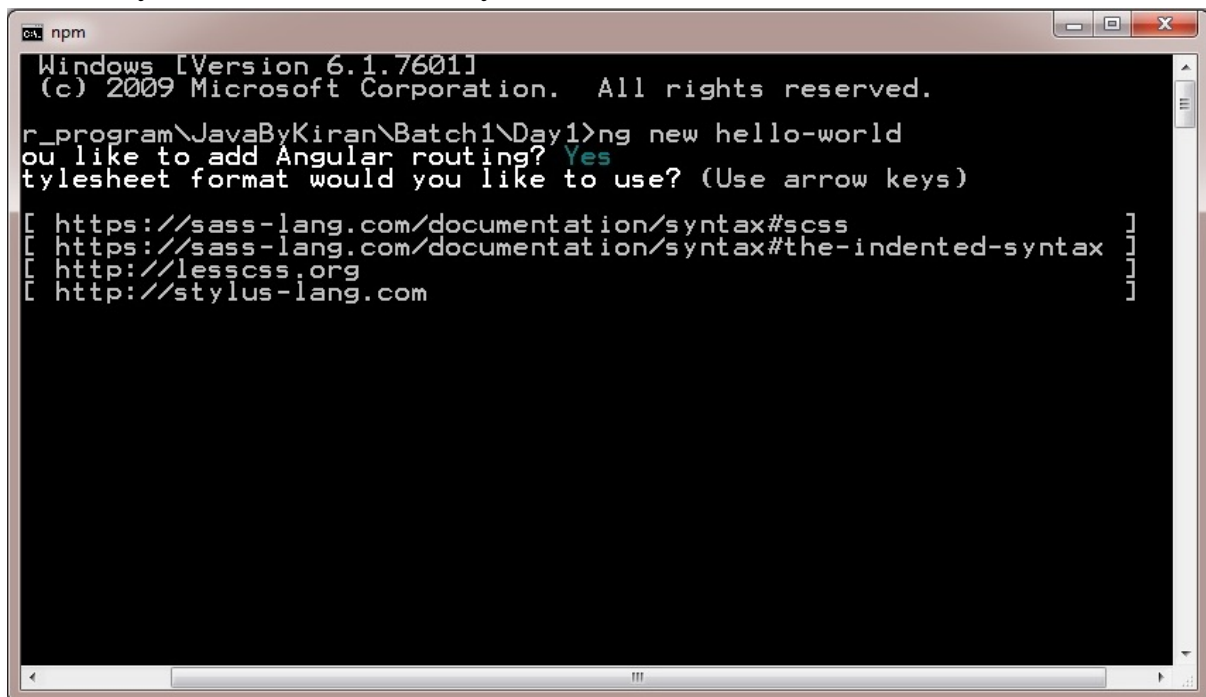
7) After Hit above command it Ask Below Question

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



```
npm
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
D:\Angular_program\JavaByKiran\Batch1\Day1>ng new hello-world
? Would you like to add Angular routing? (y/N) y_
```

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

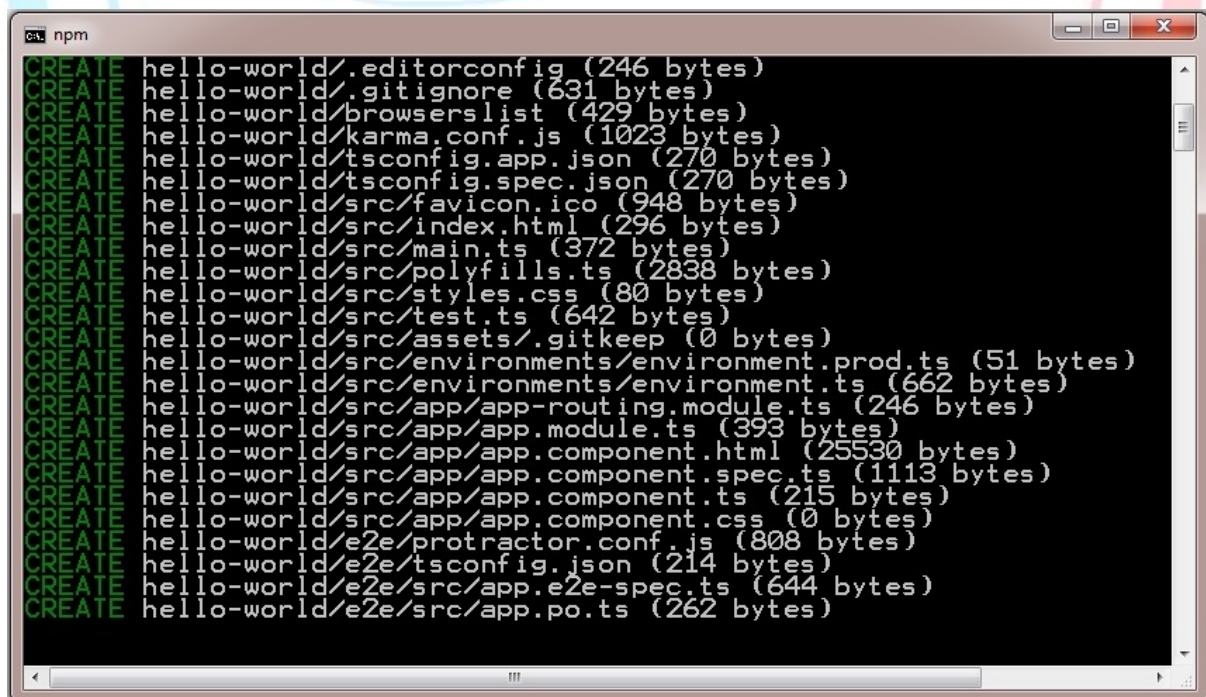


```
Windows [Version 6.1.7601]
(c) 2009 Microsoft Corporation. All rights reserved.

r_program\JavaByKiran\Batch1\Day1>ng new hello-world
Would you like to add Angular routing? Yes
Which stylesheet format would you like to use? (Use arrow keys)

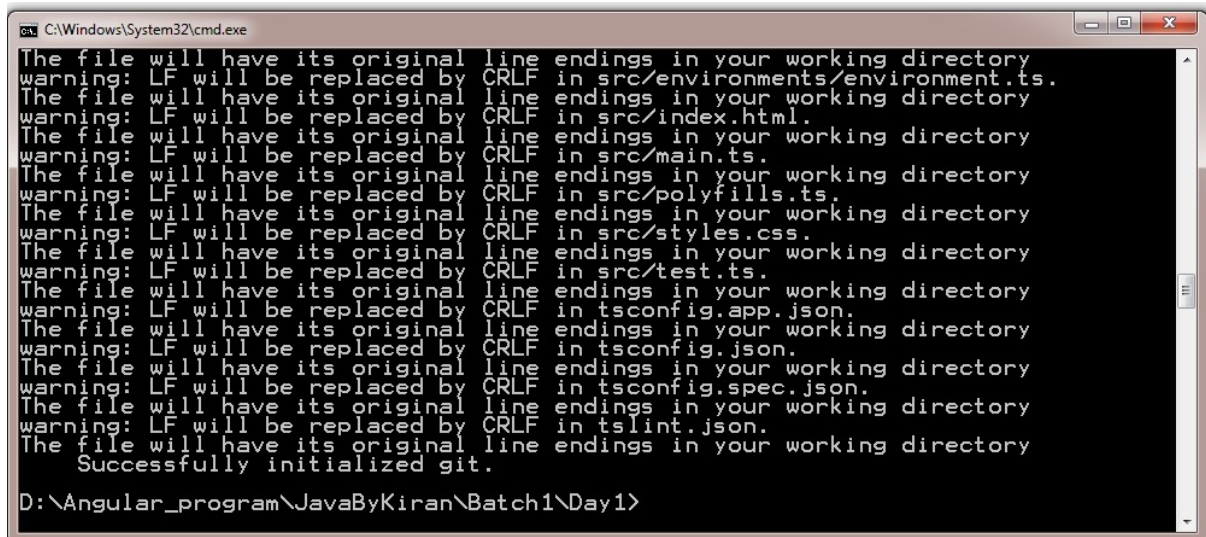
[ https://sass-lang.com/documentation/syntax#scss
[ https://sass-lang.com/documentation/syntax#the-indented-syntax
[ http://lesscss.org
[ http://stylus-lang.com
```

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



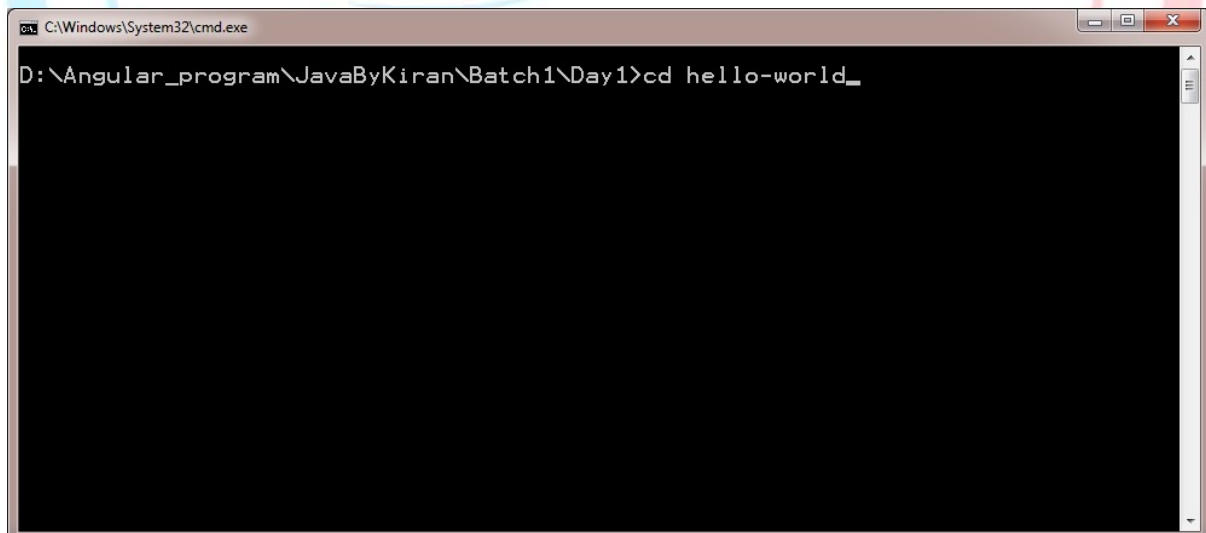
```
CREATE hello-world/.editorconfig (246 bytes)
CREATE hello-world/.gitignore (631 bytes)
CREATE hello-world/browserslist (429 bytes)
CREATE hello-world/karma.conf.js (1023 bytes)
CREATE hello-world/tsconfig.app.json (270 bytes)
CREATE hello-world/tsconfig.spec.json (270 bytes)
CREATE hello-world/src/favicon.ico (948 bytes)
CREATE hello-world/src/index.html (296 bytes)
CREATE hello-world/src/main.ts (372 bytes)
CREATE hello-world/src/polyfills.ts (2838 bytes)
CREATE hello-world/src/styles.css (80 bytes)
CREATE hello-world/src/test.ts (642 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 (662 bytes)
CREATE hello-world/src/app/app-routing.module.ts (246 bytes)
CREATE hello-world/src/app/app.module.ts (393 bytes)
CREATE hello-world/src/app/app.component.html (25530 bytes)
CREATE hello-world/src/app/app.component.spec.ts (1113 bytes)
CREATE hello-world/src/app/app.component.ts (215 bytes)
CREATE hello-world/src/app/app.component.css (0 bytes)
CREATE hello-world/e2e/protractor.conf.js (808 bytes)
CREATE hello-world/e2e/tsconfig.json (214 bytes)
CREATE hello-world/e2e/src/app.e2e-spec.ts (644 bytes)
CREATE hello-world/e2e/src/app.po.ts (262 bytes)
```

10) successfully creation of Project



```
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 src/environments/environment.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/index.html.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/main.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/polyfills.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/styles.css.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/test.ts.
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
warning: LF will be replaced by CRLF in tslint.json.
The file will have its original line endings in your working directory
Successfully initialized git.
D:\Angular_program\JavaByKiran\Batch1\Day1>
```

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>



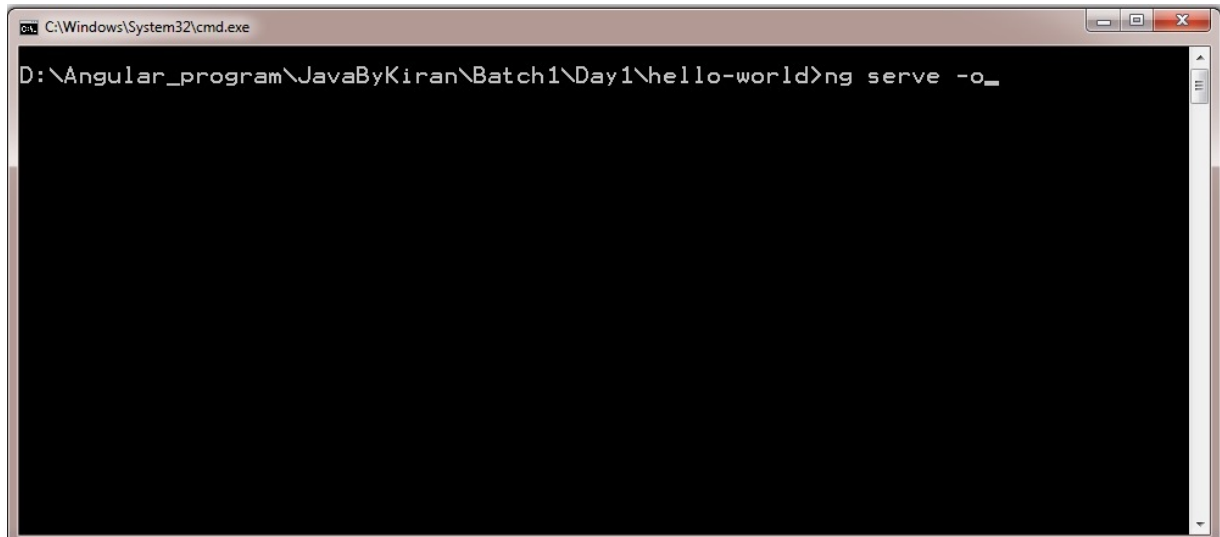
```
C:\Windows\System32\cmd.exe
D:\Angular_program\JavaByKiran\Batch1\Day1>cd hello-world_
```

12) now to run 1st angular project for that to hit command

ng serve --open

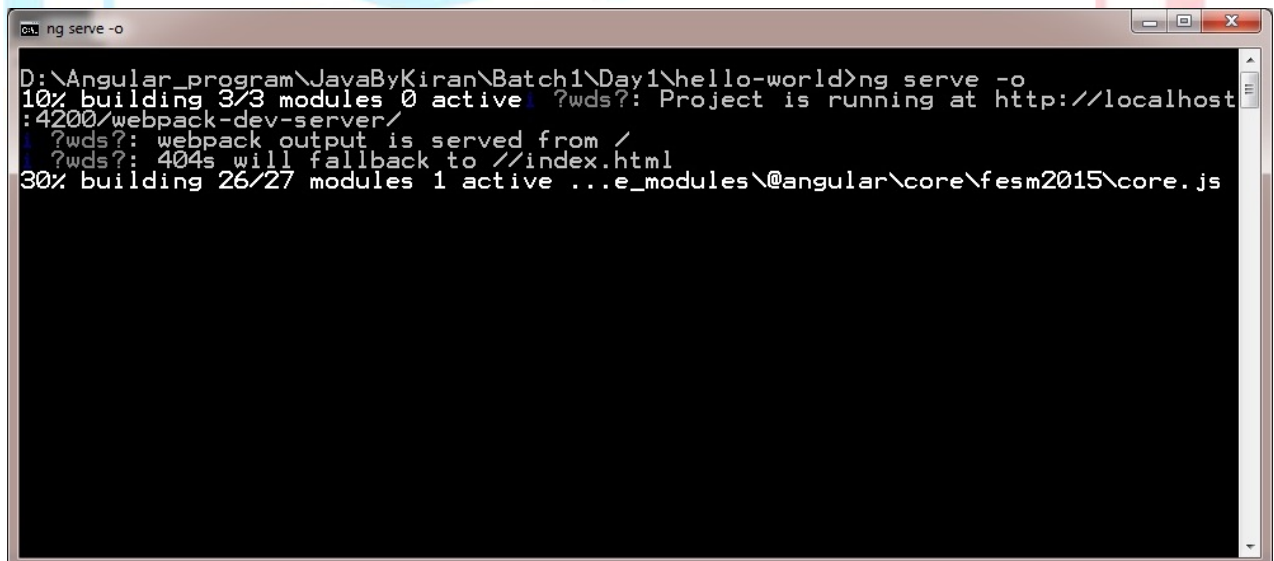
or

ng serve -o



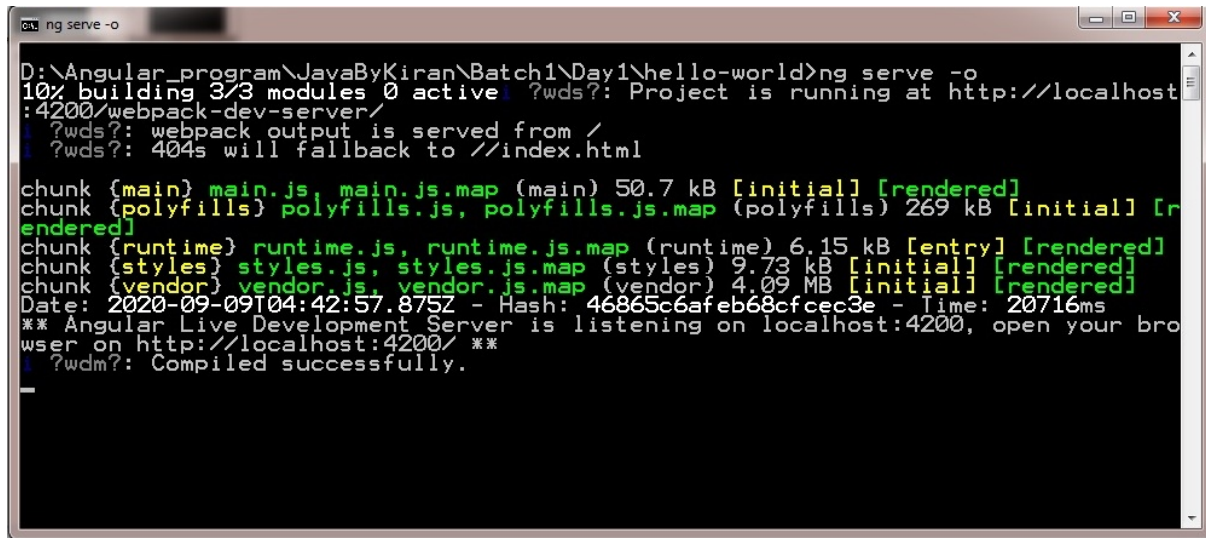
```
C:\Windows\System32\cmd.exe
D:\Angular_program\JavaByKiran\Batch1\Day1\hello-world>ng serve -o_
```

13) Compilation Process Start



```
C:\ ng serve -o
D:\Angular_program\JavaByKiran\Batch1\Day1\hello-world>ng serve -o
10% building 3/3 modules 0 active ?wds?: Project is running at http://localhost
:4200/webpack-dev-server/
?wds?: webpack output is served from /
?wds?: 404s will fallback to //index.html
30% building 26/27 modules 1 active ...e_modules\@angular\core\fesm2015\core.js
```


14) Compiled Successfully



```
D:\Angular_program\JavaByKiran\Batch1\Day1\hello-world>ng serve -o
10% building 3/3 modules 0 active ?wds?: Project is running at http://localhost:4200/webpack-dev-server/
?wds?: webpack output is served from /
?wds?: 404s will fallback to //index.html

chunk {main} main.js, main.js.map (main) 50.7 kB [initial] [rendered]
chunk {polyfills} polyfills.js, polyfills.js.map (polyfills) 269 kB [initial] [rendered]
chunk {runtime} runtime.js, runtime.js.map (runtime) 6.15 kB [entry] [rendered]
chunk {styles} styles.js, styles.js.map (styles) 9.73 kB [initial] [rendered]
chunk {vendor} vendor.js, vendor.js.map (vendor) 4.09 MB [initial] [rendered]
Date: 2020-09-09T04:42:57.875Z - Hash: 46865c6afeb68cfcec3e - Time: 20716ms
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **
?wds?: Compiled successfully.
```

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