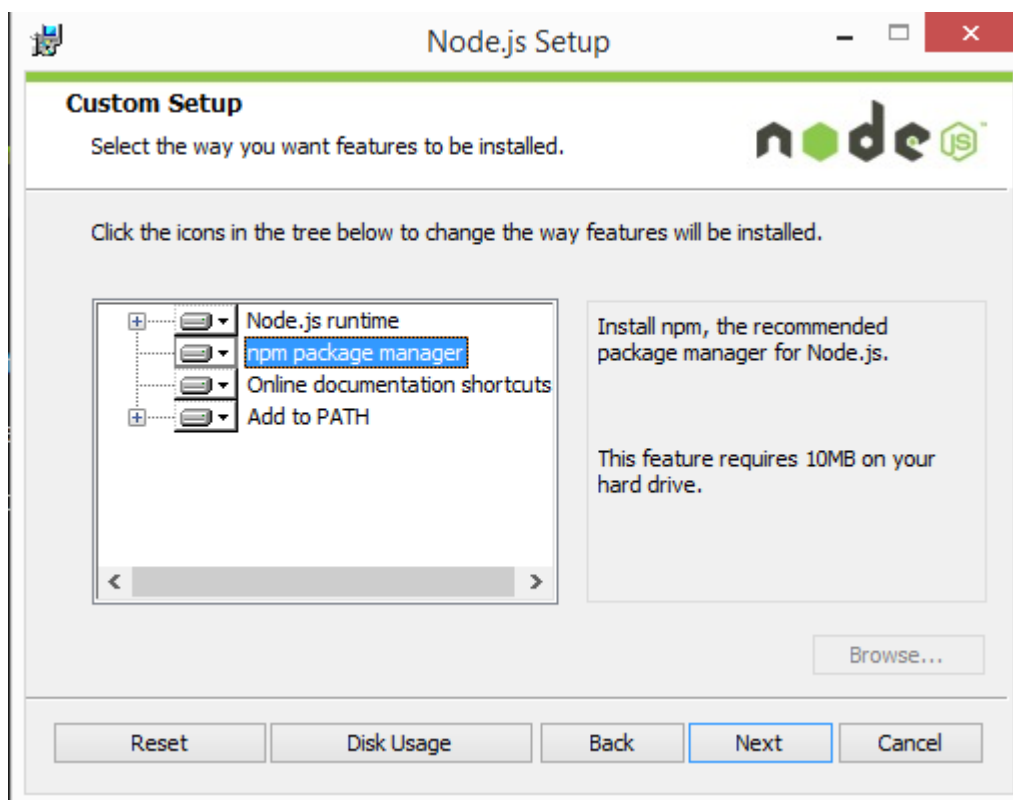


****Installation Steps of NodeJS****

1. **Download the Windows installer from the [Nodes.js® web site](https://nodejs.org/en/download/).**
2. Select the LTS 6.x version
3. **Run the installer** (the .msi file you downloaded in the previous step.)
4. **Follow the prompts in the installer** (Accept the license agreement, click the NEXT button a bunch of times and accept the default installation settings).

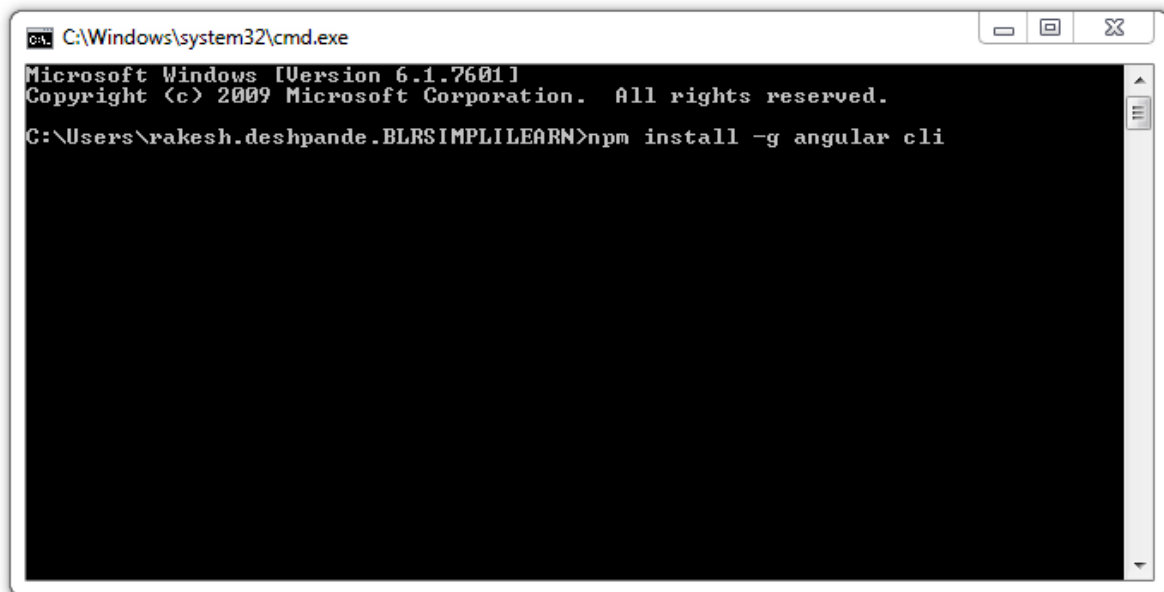


5. **Restart your computer.** You won't be able to run Node.js® until you restart your computer.

Test it!

Make sure you have Node and NPM installed by running simple commands to see what version of each is installed and to run a simple test program:

- **Test Node.** To see if Node is installed, open the Windows Command Prompt, Powershell or a similar command line tool, and type `node -v`. This should print a version number, so you'll see something like this `v6.11.1`.
- **Test NPM.** To see if NPM is installed, type `npm -v` in Terminal. This should print NPM's version number so you'll see something like this `4.4.28`
- **Install the text editor:** As specified by faculty or trainer. Ideally, Sublime text , atom etc.
- **Steps for Angular Cli:** Open command Prompt, and enter "`npm(space)install(space)-g(space)angular(space)cli`" i.e. "`npm install -g angular cli`". As shown below :



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\rakesh.deshpande.BLRSIMPLILEARN>npm install -g angular cli
```

- It will take several minutes to install depending on your connectivity. Now create a new project.
- Navigate to the project folder using "`cd`".Type "`ng new projecttitle`" and hit enter. You will be able to see the below :

```
C:\ npm
create src\app\app.component.html
create src\app\app.component.spec.ts
create src\app\app.component.ts
create src\app\app.module.ts
create src\assets\.gitkeep
create src\environments\environment.prod.ts
create src\environments\environment.ts
create src\favicon.ico
create src\index.html
create src\main.ts
create src\polyfills.ts
create src\styles.css
create src\test.ts
create src\tsconfig.json
create angular-cli.json
create e2e\app.e2e-spec.ts
create e2e\app.po.ts
create e2e\tsconfig.json
create .gitignore
create karma.conf.js
create package.json
create protractor.conf.js
create tslint.json
Installing packages for tooling via npm.
```

```
C:\Windows\system32\cmd.exe
create src\main.ts
create src\polyfills.ts
create src\styles.css
create src\test.ts
create src\tsconfig.json
create angular-cli.json
create e2e\app.e2e-spec.ts
create e2e\app.po.ts
create e2e\tsconfig.json
create .gitignore
create karma.conf.js
create package.json
create protractor.conf.js
create tslint.json
Installing packages for tooling via npm.
Installed packages for tooling via npm.
Project 'agular-app' successfully created.
C:\Users\rakesh.deshpande.BLRSIMPLILEARN>
```

- After completing the installation, enter the created directory (Project) and type “ng serve” and hit enter to run it in the browser :

```
angular-cli
58% building modules 405/482 modules 77 active ...form-browser\src\facade\colle
58% building modules 405/483 modules 78 active ...e_modules\core-js\modules\_de
58% building modules 405/484 modules 79 active ...les\core-js\modules\_enum-bug
58% building modules 405/485 modules 80 active ...modules\core-js\modules\_share
58% building modules 405/486 modules 81 active ...modules\core-js\modules\_dom-c
58% building modules 405/487 modules 82 active ...es\core-js\modules\_ie8-dom-d
58% building modules 405/488 modules 83 active ...e-js\modules\_object-keys-int
58% building modules 405/489 modules 84 active ...de_modules\core-js\modules\_i
58% building modules 405/490 modules 85 active ...modules\core-js\modules\_stri
58% building modules 405/491 modules 86 active ...e-js\modules\_array-species-c
58% building modules 405/492 modules 87 active ...ules\core-js\modules\_redefin
58% building modules 405/493 modules 88 active ...dules\core-js\modules\_an-ins
58% building modules 405/494 modules 89 active ...de_modules\core-js\modules\_f
58% building modules 405/495 modules 90 active ...dules\core-js\modules\_es6.wea
58% building modules 406/495 modules 89 active ...dules\core-js\modules\_es6.wea
58% building modules 407/495 modules 88 active ...dules\core-js\modules\_es6.wea
58% building modules 408/495 modules 87 active ...dules\core-js\modules\_es6.wea
59% building modules 409/495 modules 86 active ...dules\core-js\modules\_es6.wea
59% building modules 410/495 modules 85 active ...dules\core-js\modules\_es6.wea
59% building modules 411/495 modules 84 active ...dules\core-js\modules\_es6.wea
59% building modules 412/495 modules 83 active ...dules\core-js\modules\_es6.wea
59% building modules 413/495 modules 82 active ...dules\core-js\modules\_es6.wea
59% building modules 414/495 modules 81 active ...dules\core-js\modules\_es6.wea
59% building modules 415/495 modules 80 active ...dules\core-js\modules\_es6.wea
k-map.js
```

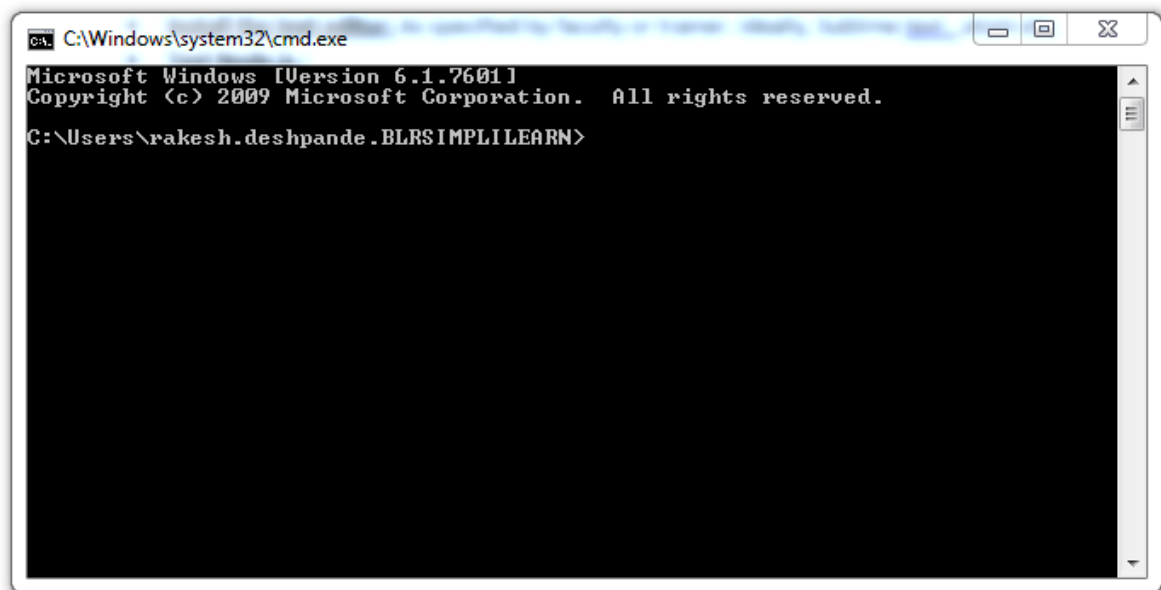
```
angular-cli
69% building modules 691/695 modules 4 active ...les\@angular\common\src\pipes\
69% building modules 692/695 modules 3 active ...les\@angular\common\src\pipes\
69% building modules 692/696 modules 4 active ...es\@angular\common\src\facade\
69% building modules 692/697 modules 5 active ...gular\common\src\facade\collec
69% building modules 692/698 modules 6 active ...N\angular-app\node_modules\ms\i
69% building modules 693/698 modules 5 active ...N\angular-app\node_modules\ms\i
69% building modules 694/698 modules 4 active ...N\angular-app\node_modules\ms\i
69% building modules 695/698 modules 3 active ...N\angular-app\node_modules\ms\i
69% building modules 696/698 modules 2 active ...N\angular-app\node_modules\ms\i
69% building modules 697/698 modules 1 active ...N\angular-app\node_modules\ms\i
69% building modules 698/699 modules 1 active ...@angular\common\src\facade\er
Hash: 45db9955c518d155c48c
Time: 16393ms
chunk <0> polyfills.bundle.js, polyfills.bundle.map <polyfills> 232 kB <4> [i
nitia] [rendered]
chunk <1> main.bundle.js, main.bundle.map <main> 4.11 kB <3> [initial] [rende
red]
chunk <2> styles.bundle.js, styles.bundle.map <styles> 9.71 kB <4> [initial]
[rendered]
chunk <3> vendor.bundle.js, vendor.bundle.map <vendor> 2.63 MB [initial] [ren
dered]
chunk <4> inline.bundle.js, inline.bundle.map <inline> 0 bytes [entry] [rende
red]
webpack: Compiled successfully.
```

- **Test Node.js :**

1. Create a new project in the text editor and save the file with “.js” extension. E.g :
filename.js

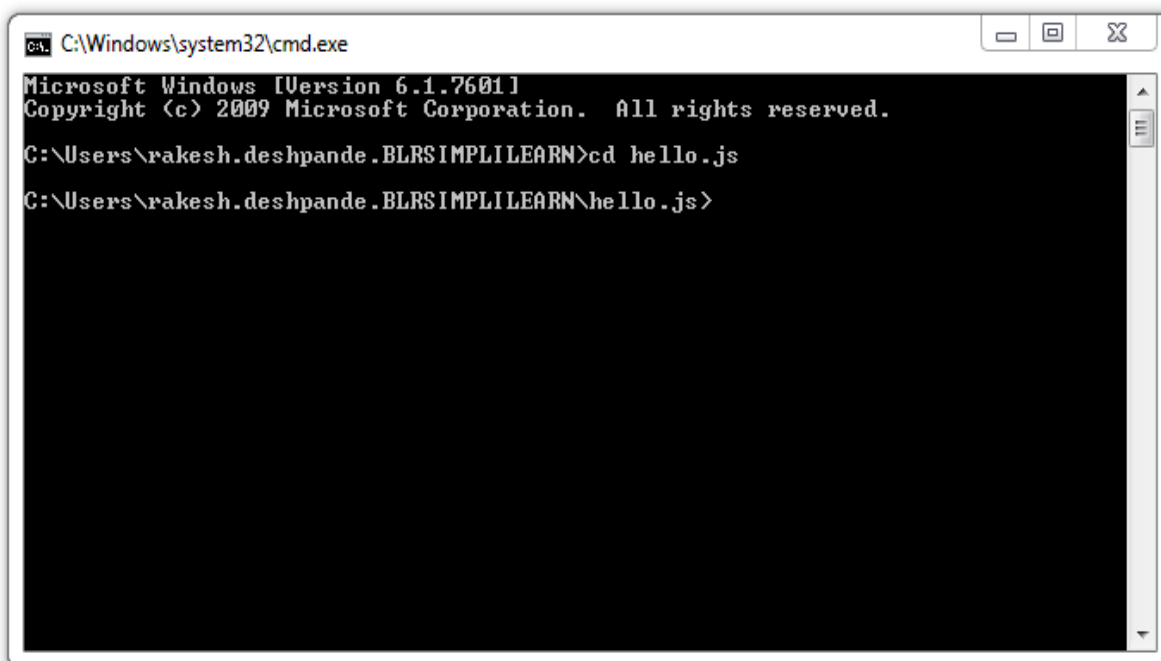
2. Open command Prompt from your Windows or Mac. For Windows :

a> Start menu + R -> opens a dialog box -> type “cmd” and hit enter. It will show something like below :



```
ca. C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\rakesh.deshpande.BLRSIMPLILEARN>
```

b> Navigate to the folder where you have saved the “.js” file using ‘**cd**’ command. In the example screenshot, it is saved in hello.js folder in C Drive.



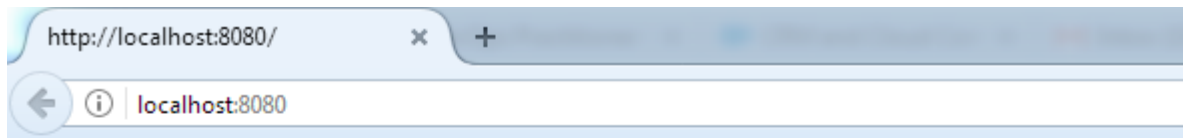
```
ca. C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\rakesh.deshpande.BLRSIMPLILEARN>cd hello.js
C:\Users\rakesh.deshpande.BLRSIMPLILEARN\hello.js>
```

c> Open the file and write the sample code :

```
"var http = require('http');  
http.createServer(function (req, res) {  
  res.writeHead(200, {'Content-Type': 'text/html'});  
  res.end('Hey! You have successfully installed Node.js');  
}).listen(8080); "
```

d> Type **"node filename.js"** which starts the node server but does not show anything.

e> Go to any of your browser (Chrome Suggested) and type <http://localhost:8080> in the URI section. You should be able to see the below message :



Hey! You have successfully installed Node.js

How to Update Node and NPM

New versions of Node and NPM come out frequently. To install the updates, just [download the installer](#) from the Nodejs.org site and run it again. The new version of Node and NPM will replace the older versions.

How to Uninstall Node and NPM

You uninstall Node.js and NPM the same as you would most Windows software:

1. Open the Windows Control Panel
2. Choose the “Programs and Features” option
3. Click the “Uninstall a program” option
4. Select Node.js, and click the Uninstall link.