

1.2 Assignment

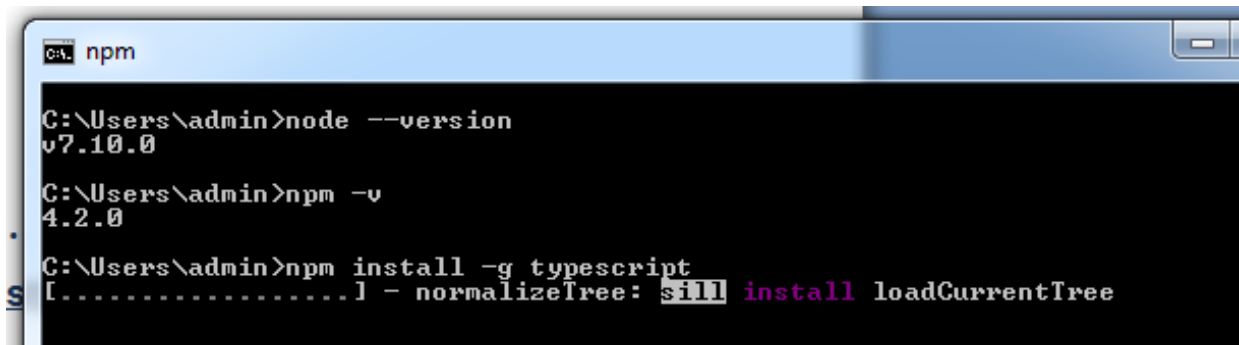
1. Installing TypeScript
2. Install Angular cli through npm.
3. Check Angular cli version.
4. Create new project with Angular CLI through cmd.
5. Run the project and navigate to the <http://localhost:4200/>

1. Installing TypeScript

Because we have **npm** installed already, we can use **npm** to install the **TypeScript compiler** in no time. Let's run this command:

```
npm install -g typescript
```

- **Note:** If you get a "permission error", try again using this command: **sudo npm install -g typescript**



The screenshot shows a Windows command prompt window with the title bar 'cmd npm'. The command history includes:
1. `C:\Users\admin>node --version` returning `v7.10.0`
2. `C:\Users\admin>npm -v` returning `4.2.0`
3. `C:\Users\admin>npm install -g typescript`
The output of the third command is partially visible: `[.....] - normalizeTree: sill install loadCurrentTree`

2. Install Angular cli through npm.

Now, let's install it!

Installing angular-cli

Installing **angular-cli** is pretty easy. We just need to run this command:

```
npm install -g @angular/cli
```

1.2 Assignment

```
cmd: npm

C:\Users\admin>tsc -v
Version 2.4.2

C:\Users\admin>npm install -g @angular/cli
[.....] ! normalizeTree: sill install loadCurrentTree
```

```
cmd: Command Prompt

C:\Users\admin>npm install -g @angular/cli
C:\Users\admin\AppData\Roaming\npm\ng -> C:\Users\admin\AppData\Roaming\npm\node_modules\@angular\cli\bin\ng
- debug@2.6.7 node_modules\@angular\cli\node_modules\finalhandler\node_modules\debug
- depd@1.1.0 node_modules\@angular\cli\node_modules\http-errors\node_modules\depd
C:\Users\admin\AppData\Roaming\npm
-- @angular/cli@1.2.7
+-- autoprefixer@6.7.7
+-- browserslist@1.7.7
+-- electron-to-chromium@1.3.17
+-- caniuse-db@1.0.30000710
+-- fs-extra@4.0.1
+-- html-webpack-plugin@2.30.1
+-- less@2.7.2
+-- request@2.81.0
+-- http-signature@1.1.1
+-- jsprim@1.4.1
+-- extsprintf@1.3.0
+-- verror@1.10.0
+-- assert-plus@1.0.0
+-- node-sass@4.5.3
+-- cross-spawn@3.0.1
+-- which@1.3.0
+-- webpack@2.4.1
+-- node-libs-browser@2.0.0
+-- crypto-browserify@3.11.1
+-- pbkdf2@3.0.13
+-- timers-browserify@2.0.3
+-- global@4.3.2
+-- min-document@2.19.0
+-- dom-walk@0.1.1
+-- process@0.5.2
+-- tapable@0.2.8
+-- webpack-dev-middleware@1.12.0
+-- time-stamp@2.0.0
+-- webpack-dev-server@2.4.5
+-- express@4.15.3
+-- finalhandler@1.0.4
+-- serve-index@1.9.0
+-- http-errors@1.6.2

npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.0.0 (node_modules\@angular\cli\node_modules\chokidar\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.1.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

C:\Users\admin>
```

1.2 Assignment

3. Check Angular cli version.

```
ng --version
```

4. Create new project with Angular CLI through cmd.

Let's say I want to create a new app called **myapp**, we can easily create the app with:

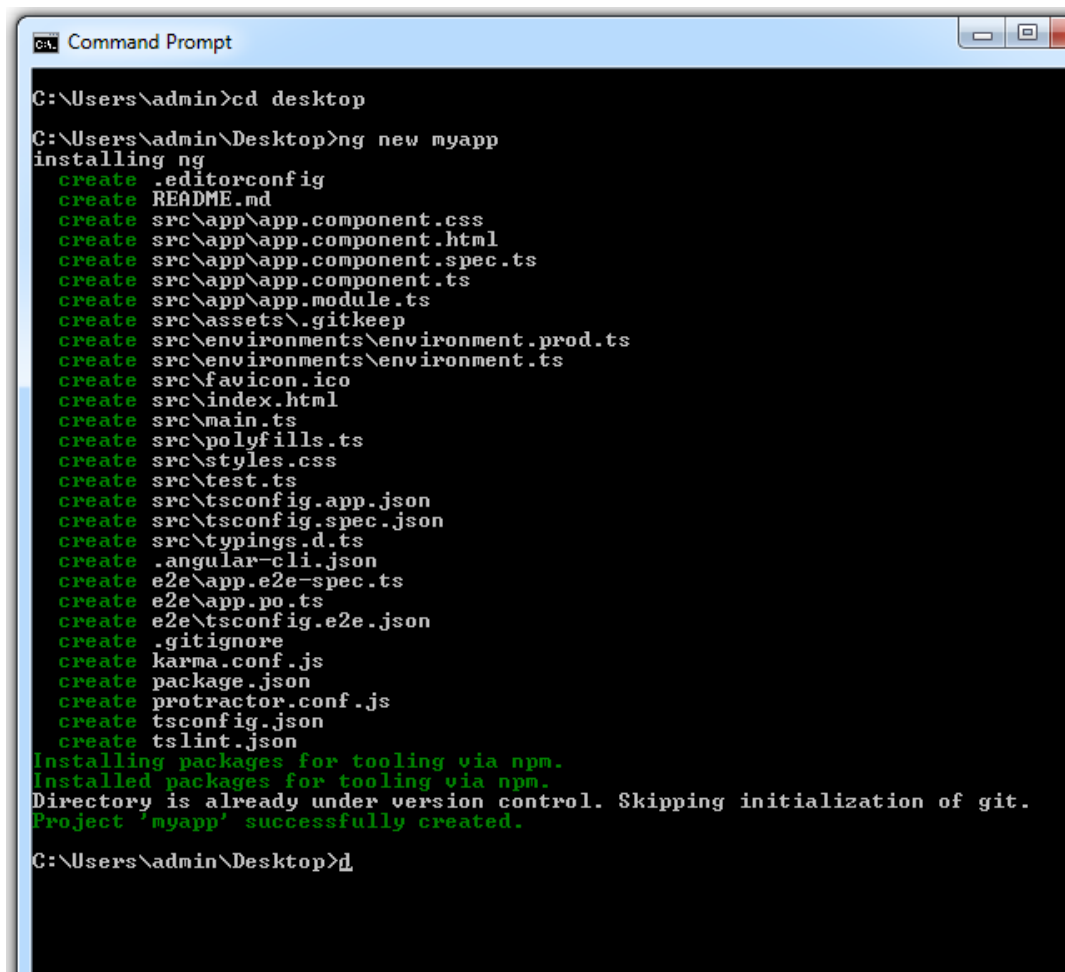
Open CMD and type **cd Desktop** if you are not already in your Desktop path, then type

```
ng new ProjectName
```

.

```
ng new myapp
```

This command will create a new project skeleton (**myapp**) and download all required components and packages for us.



```
Command Prompt

C:\Users\admin>cd desktop
C:\Users\admin\Desktop>ng new myapp
installing ng
create .editorconfig
create README.md
create src\app\app.component.css
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\tscconfig.app.json
create src\tscconfig.spec.json
create src\types.d.ts
create .angular-cli.json
create e2e\app.e2e-spec.ts
create e2e\app.po.ts
create e2e\tscconfig.e2e.json
create .gitignore
create karma.conf.js
create package.json
create protractor.conf.js
create tsconfig.json
create tslint.json
Installing packages for tooling via npm.
Installed packages for tooling via npm.
Directory is already under version control. Skipping initialization of git.
Project 'myapp' successfully created.

C:\Users\admin\Desktop>d
```

1.2 Assignment

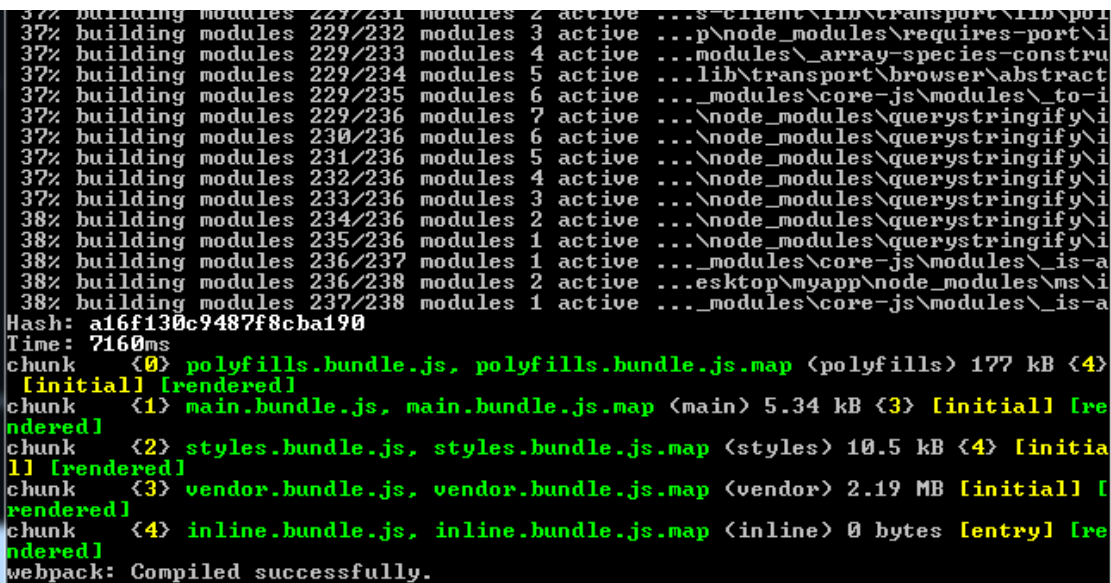
For now, let's **navigate** to the **app** directory:

```
cd myapp
```

5. Run the project and navigate to the <http://localhost:4200/>

Then we can start the app by running this command:

```
ng serve
```



```
37% building modules 229/231 modules 2 active ...s-client\lib\transport\lib\poli
37% building modules 229/232 modules 3 active ...p\node_modules\requires-port\i
37% building modules 229/233 modules 4 active ...modules\_array-species-constru
37% building modules 229/234 modules 5 active ...lib\transport\browser\abstract
37% building modules 229/235 modules 6 active ...modules\core-js\modules\_to-i
37% building modules 229/236 modules 7 active ...node_modules\querystringify\i
37% building modules 230/236 modules 6 active ...node_modules\querystringify\i
37% building modules 231/236 modules 5 active ...node_modules\querystringify\i
37% building modules 232/236 modules 4 active ...node_modules\querystringify\i
37% building modules 233/236 modules 3 active ...node_modules\querystringify\i
38% building modules 234/236 modules 2 active ...node_modules\querystringify\i
38% building modules 235/236 modules 1 active ...node_modules\querystringify\i
38% building modules 236/237 modules 1 active ...modules\core-js\modules\_is-a
38% building modules 236/238 modules 2 active ...esktop\myapp\node_modules\ms\i
38% building modules 237/238 modules 1 active ...modules\core-js\modules\_is-a
Hash: a16f130c9487f8c9a190
Time: 7160ms
chunk <0> polyfills.bundle.js, polyfills.bundle.js.map <polyfills> 177 kB <4>
[initial] [rendered]
chunk <1> main.bundle.js, main.bundle.js.map <main> 5.34 kB <3> [initial] [re
ndered]
chunk <2> styles.bundle.js, styles.bundle.js.map <styles> 10.5 kB <4> [initia
l] [rendered]
chunk <3> vendor.bundle.js, vendor.bundle.js.map <vendor> 2.19 MB [initial] [
rendered]
chunk <4> inline.bundle.js, inline.bundle.js.map <inline> 0 bytes [entry] [re
ndered]
webpack: Compiled successfully.
```

We should see this line:

```
** NG Live Development Server is running on http://localhost:4200 **
```

<http://localhost:4200/> is where we can access our Angular app.

Open browser, and go to <http://localhost:4200/>

1.2 Assignment

