

Angular start-up pack

Libraries required

1. Angular CLI

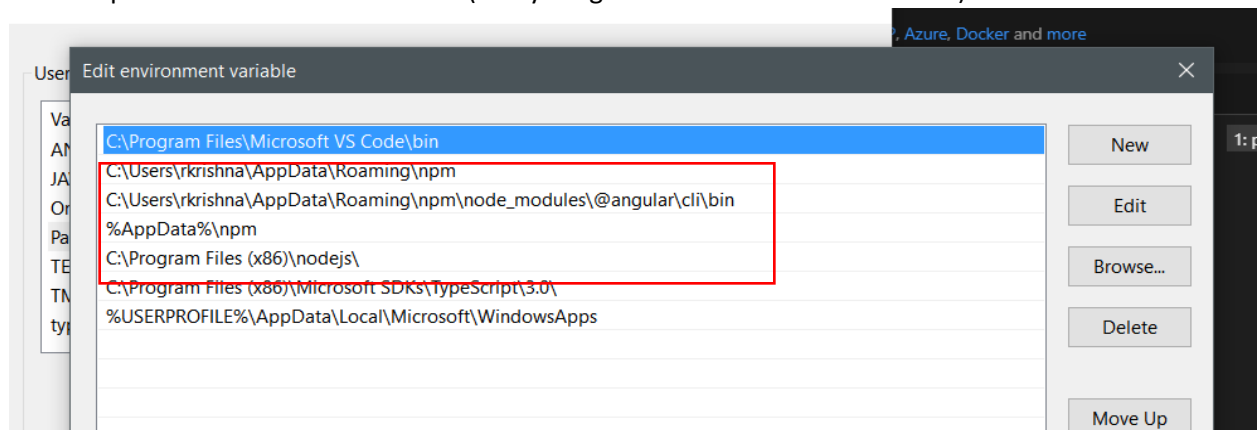
Step 1: installing NPM

Go to cmd and path where it is to be installed

→ [npm install -g @angular/cli] // "-g to install it globally" //@angular/cli is the package name

```
PS C:\Users\rkrishna> npm install -g @angular/cli
C:\Users\rkrishna\AppData\Roaming\npm\ng -> C:\Users\rkrishna\AppData\Roaming\npm\node_modules\@angular\cli\bin\ng
> @angular/cli@8.0.3 postinstall C:\Users\rkrishna\AppData\Roaming\npm\node_modules\@angular\cli
> node ./bin/postinstall/script.js
```

→ Add the path in environment variables(everything mentioned in the box is must)



→ verify npm and angular cli version

```
PS C:\Users\rkrishna> npm -v
6.4.1
PS C:\Users\rkrishna> ng --version

Angular CLI
Angular CLI: 8.0.3
Node: 10.15.3
OS: win32 x64
Angular: undefined
...

Package                                Version
-----
@angular-devkit/architect              0.800.3 (cli-only)
@angular-devkit/core                   8.0.3 (cli-only)
@angular-devkit/schematics             8.0.3 (cli-only)
@schematics/angular                   8.0.3 (cli-only)
@schematics/update                     0.800.3 (cli-only)
```

Step 2: create a new angular project

→ go to the folder where you want to create the project and verify the angular/cli version.

```
PS D:\> mkdir angular_try
```

Directory: D:\

Mode	LastWriteTime	Length	Name
d-----	6/17/2019 12:14 PM		angular_try

```
PS D:\> cd .\angular_try\  
PS D:\angular_try> ng --version
```

Angular CLI 8.0.3
Node: 10.15.3
OS: win32 x64
Angular:
...

Package	Version
@angular-devkit/architect	0.800.3
@angular-devkit/core	8.0.3
@angular-devkit/schematics	8.0.3
@schematics/angular	8.0.3
@schematics/update	0.800.3
rxjs	6.4.0

```
PS D:\angular_try>
```

➔ [ng new hello-world] //hello-world is project name

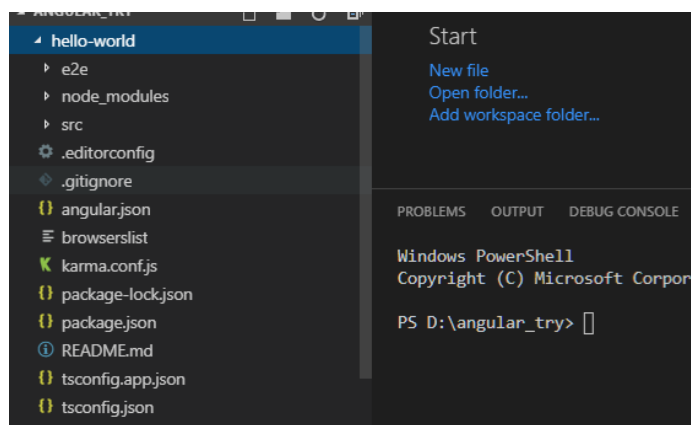
```
PS D:\angular_try> ng new hello-world
? Would you like to add Angular routing? No
? Which stylesheet format would you like to use? CSS
CREATE hello-world/angular.json (3465 bytes)
CREATE hello-world/package.json (1284 bytes)
```

New project will be created with multiple files.

➔ Open the project in vs code

Type `[code.]` → new vs code window opens → if you open the terminal it should be pointing to the folder where your current project is available.

```
PS D:\angular_try> code .
```

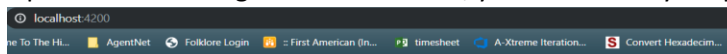


Step 3: run the project and verify if everything is working fine

- ➔ Go to terminal ➔ go to your project folder and type [ng serve] , it should compile and run your project.

```
PS D:\angular_try> cd .\hello-world\  
PS D:\angular_try\hello-world> ng serve  
  
Date: 2019-06-17T07:00:05.892Z  
Hash: e88d44f55ae999fd13b6  
Time: 22386ms  
chunk {main} main.js, main.js.map (main) 9.75 kB [initial] [rendered]  
chunk {polyfills} polyfills.js, polyfills.js.map (polyfills) 248 kB [initial] [rendered]  
chunk {runtime} runtime.js, runtime.js.map (runtime) 6.08 kB [entry] [rendered]  
chunk {styles} styles.js, styles.js.map (styles) 16.3 kB [initial] [rendered]  
chunk {vendor} vendor.js, vendor.js.map (vendor) 3.67 MB [initial] [rendered]  
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/  
**  
i [wdm]: Compiled successfully.
```

- ➔ Open browser and go to the localhost , you should see your project up and running.



Welcome to hello-world!



Step 4: installing TypeScript globally

- ➔ Go to your root user folder where u added angular package and type [npm install -g typescript]

```
PS D:\angular_try\hello-world> c:  
PS C:\> cd .\Users\rkrishna\  
PS C:\Users\rkrishna> npm install -g typescript  
C:\Users\rkrishna\AppData\Roaming\npm\tsc -> C:\Users\rkrishna\AppData\Roaming\npm\node_modules\typescript\bin\tsc  
C:\Users\rkrishna\AppData\Roaming\npm\tsserver -> C:\Users\rkrishna\AppData\Roaming\npm\node_modules\typescript\bin\tsserver  
+ typescript@3.5.2  
updated 1 package in 5.596s
```

This will install typescript globally.

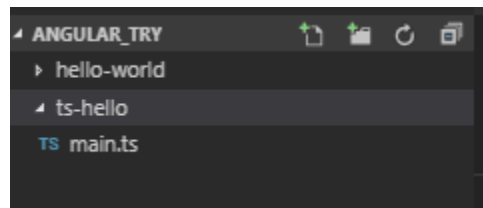
- ➔ Verify the typescript [tsc --version]

```
PS C:\Users\rkrishna> tsc --version  
Version 3.5.2
```

(optional)➔ to try out demo with typescript you can create a new folder and open .ts file in VS Code.. go back to your project folder and create a new folder

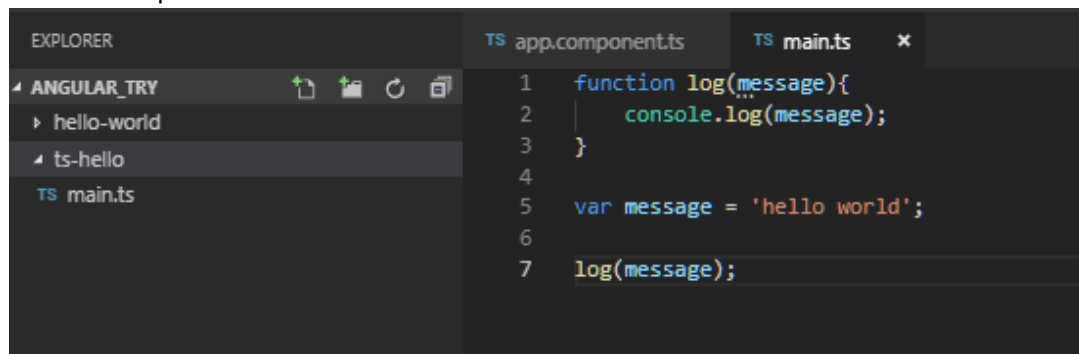
```
PS C:\Users\rkrishna> d:  
PS D:\angular_try\hello-world> cd..  
PS D:\angular_try> mkdir ts-hello  
  
PS D:\angular_try> cd .\ts-hello\  
PS D:\angular_try\ts-hello> code main.ts  
PS D:\angular_try\ts-hello> 
```

→ It should open the new folder and file in the VS code.

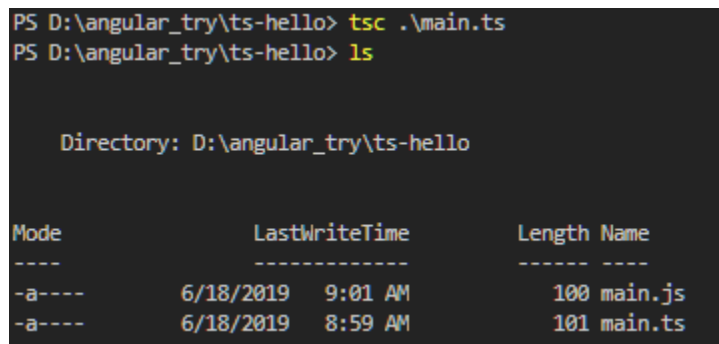


Note: all JavaScript code is valid typescript code

→ Create a simple function in .ts file



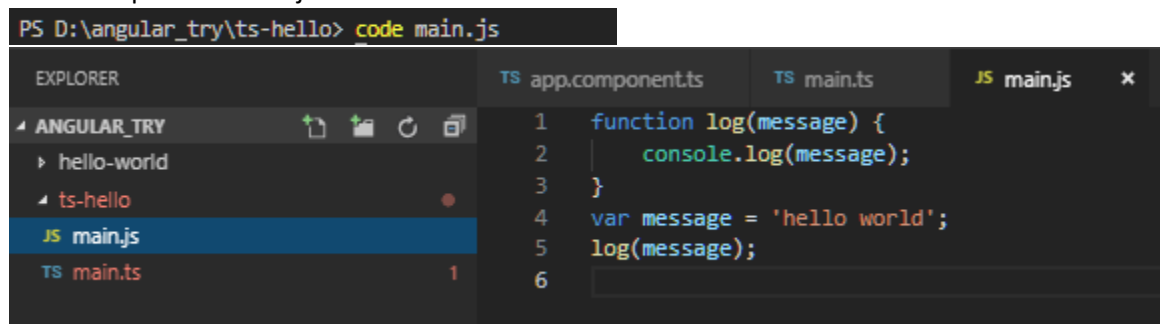
→ Compile the script [tsc main.ts] //tsc mean typescriptcompiler



→ On successful compilation we can see two file main.ts and main.js.

→ Bu default when u call ng serve the compiler internally calls typescriptcompiler and transpires all .ts file to .js

→ Now if u open the main.js



- ➔ Now execute the script to check if your code is working
[node main.js]

```
PS D:\angular_try\ts-hello> node main.js  
hello world
```

You can see the output in the console.