



**One framework.
Mobile & desktop.**

1강. Angular 개발환경 설정



DEVELOP ACROSS ALL PLATFORMS

Learn one way to build applications with Angular and reuse your code and abilities to build apps for any deployment target. For web, mobile web, native mobile and native desktop.

1강. Angular 개발환경 설정

가. Git 설치 (코드공유)

나. Node.js 설치(npm사용)

다. Vscode 설치 (IDE)

라. Angular 설치 (framework)

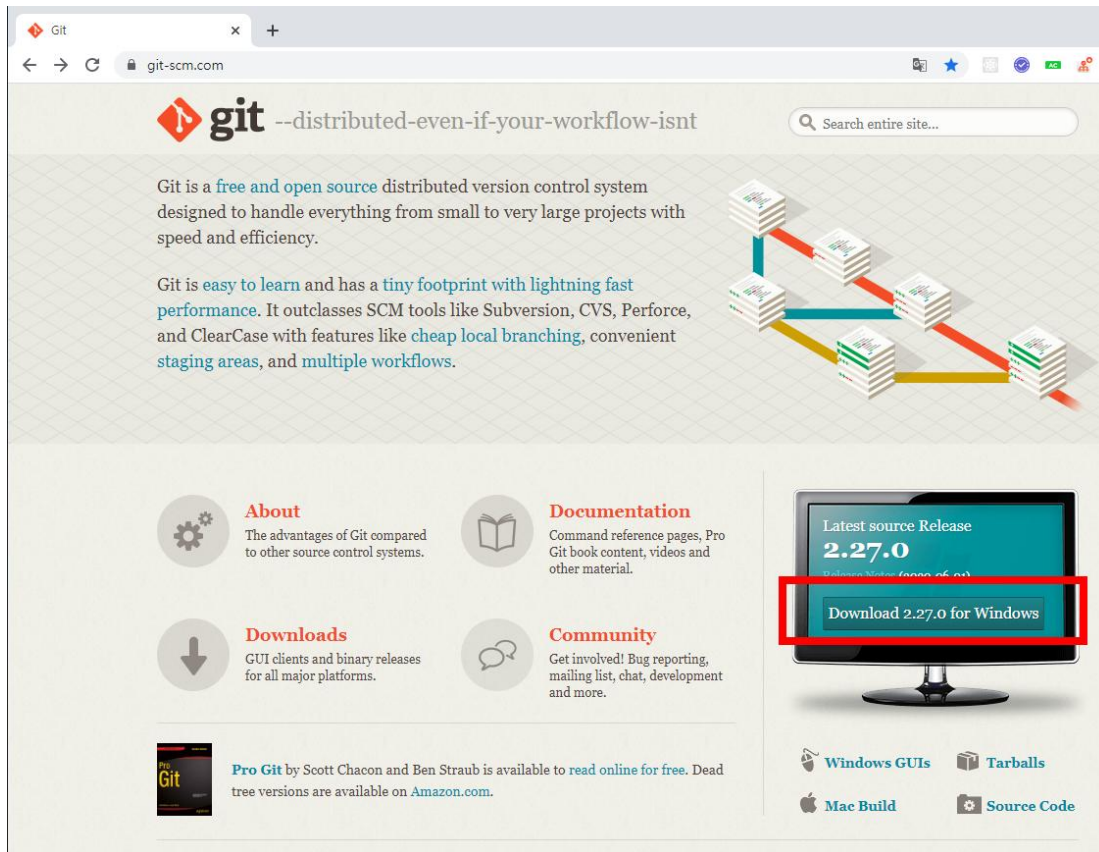
마. Typescript 설치 (문법)

□ 1) Angular 환경 설정

○ Angular 개발을 위한 환경 설정

가. Git 설치 (기본 설치)

<https://git-scm.com>



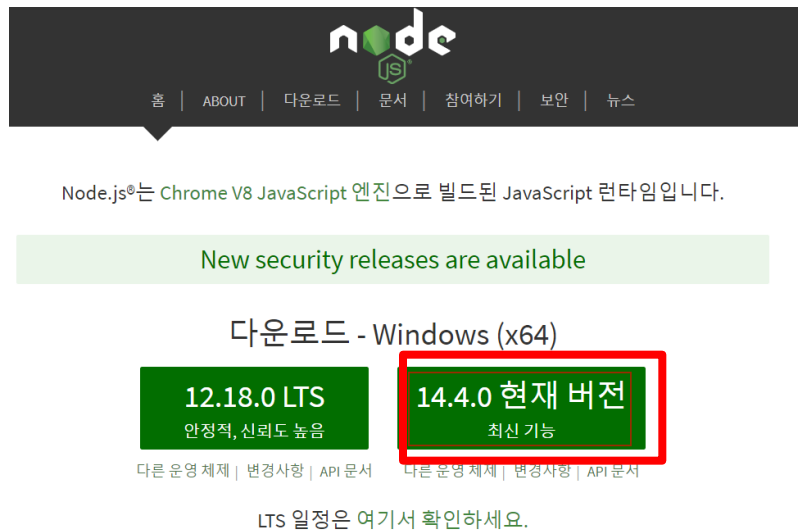
```
C:\Users\Wkyin>git --version  
git version 2.27.0.windows.1
```

□ 1) Angular 환경 설정

○ Angular 개발을 위한 환경 설정

나. Node.js 설치 (기본 설치)

<https://nodejs.org/ko/>

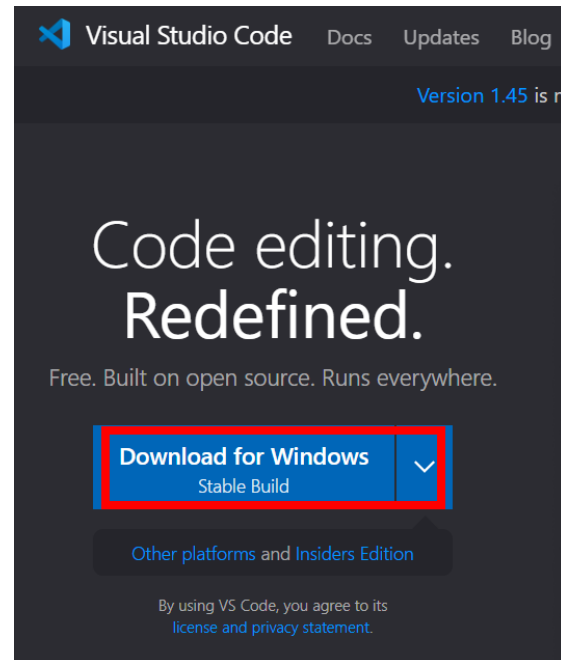


```
C:\Users\#kyin>node -v  
v14.4.0
```

다. 개발 툴 설치 (Visual Studio Code)
(기본설치환경으로 구성)

- 주의: 기존 vs code 사용자의 경우 실습환경 구성이 다를 수 있으므로 가급적
기본설치환경 구성 권장

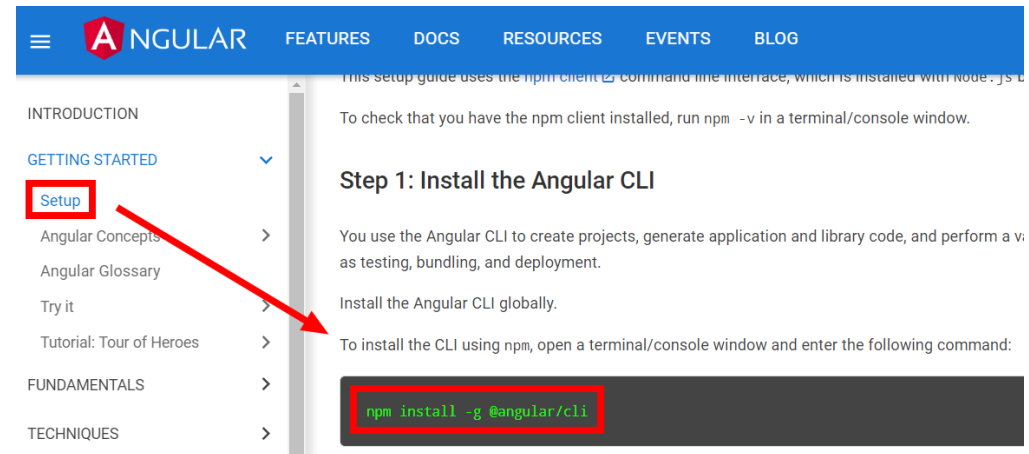
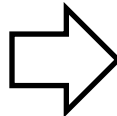
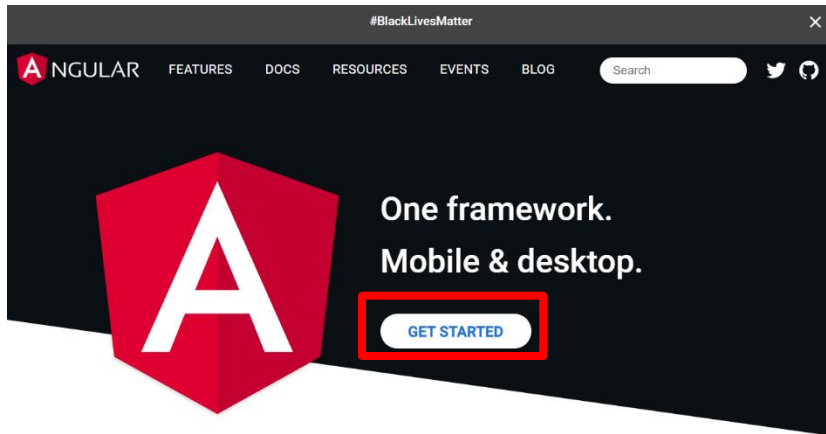
<https://code.visualstudio.com/>



❑ 1) Angular 환경 설정

라. Angular 설치 (Angular CLI)

<https://angular.io>





□ 1) Angular 환경 설정

- Angular CLI는 프로젝트를 만들고 파일을 추가하며 테스트, 번들링 및 배포와 같은 다양한 개발 작업을 수행 할 수 있는 명령 줄 인터페이스 도구.
- 개발자가 Angular 개발에만 집중할 수 있도록 Angular 프로젝트의 기본 환경 설정함.

Step 1: Install the Angular CLI

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

•사용자 작업 디렉토리 생성
후 명령 실행 우측 하단 참조

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

```
명령 프롬프트
v14.4.0
C:\Users\Wkyin>npm install -g @angular/cli
npm WARN deprecated request@2.88.2: request has been deprecated, see
hub.com/request/request/issues/3142
C:\Users\Wkyin\AppData\Roaming\npm\ng -> C:\Users\Wkyin\AppData\Roaming\npm\node_modules\@angular\cli\bin\ng
> @angular/cli@9.1.7 postinstall C:\Users\Wkyin\AppData\Roaming\npm\node_modules\@angular\cli
> node ./bin/postinstall/script.js

? Would you like to share anonymous usage data with the Angular Team at Google u
nder
Google's Privacy Policy at https://policies.google.com/privacy? For more detail
s and
how to change this setting, see http://angular.io/analytics. Yes

Thank you for sharing anonymous usage data. If you change your mind, the followi
ng
command will disable this feature entirely:

  ng analytics off

+ @angular/cli@9.1.7
```



```
명령 프롬프트
C:\Users\Wkyin>mkdir c:\Wangular
C:\Users\Wkyin>cd c:\Wangular
c:\Wangular>
```

```
C:\Users\Wkyin>ng --version
```



```
Angular CLI: 9.1.7
Node: 14.4.0
OS: win32 x64
```



□ 2) Typescript

– Typescript 환경 설정

<http://www.typescriptlang.org/>

Get TypeScript

Node.js

The command-line TypeScript compiler can be installed as a Node.js package.

INSTALL

```
npm install -g typescript
```

C:\angular 디렉토리에서 실행

```
C:\angular>npm install -g typescript
```

```
C:\Users\kyin\AppData\Roaming\npm\tsserver  
typescript\bin\tsserver
```

```
C:\Users\kyin\AppData\Roaming\npm\tsc -> C  
ipt\bin\tsc
```

```
+ typescript@3.9.5
```

```
updated 1 package in 0.864s
```

```
C:\angular>tsc --version
```

```
Version 3.9.5
```

□ 1) Angular 환경 설정

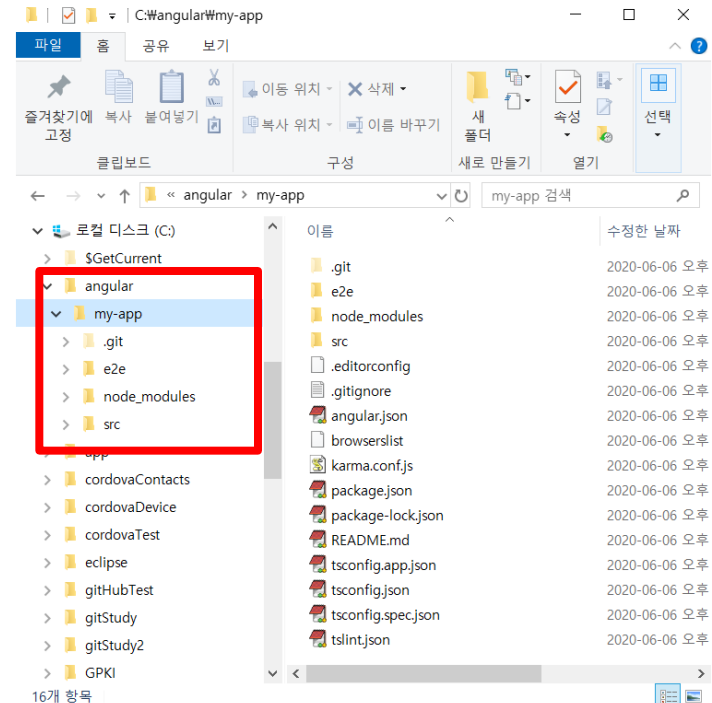
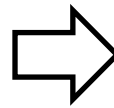
Step 2: Create a workspace and initial application

step 1에서 생성한 C:\Wangular 디렉토리에서 반드시 실행 생성 후 폴더이동

```
ng new my-app
```

```

C:\Users\Wkyin>mkdir c:\Wangular
C:\Users\Wkyin>cd c:\Wangular
c:\Wangular>ng new my-app
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? CSS
CREATE my-app/angular.json (3566 bytes)
CREATE my-app/package.json (1239 bytes)
CREATE my-app/README.md (1022 bytes)
CREATE my-app/tsconfig.json (489 bytes)
CREATE my-app/tslint.json (3125 bytes)
CREATE my-app/.editorconfig (274 bytes)
CREATE my-app/.gitignore (631 bytes)
CREATE my-app/browserslist (429 bytes)
CREATE my-app/karma.conf.js (1018 bytes)
CREATE my-app/tsconfig.app.json (210 bytes)
CREATE my-app/tsconfig.spec.json (270 bytes)
CREATE my-app/src/favicon.ico (948 bytes)
CREATE my-app/src/index.html (291 bytes)
CREATE my-app/src/main.ts (372 bytes)
CREATE my-app/src/polyfills.ts (2835 bytes)
CREATE my-app/src/styles.css (80 bytes)
CREATE my-app/src/test.ts (753 bytes)
CREATE my-app/src/assets/.gitkeep (0 bytes)
  
```



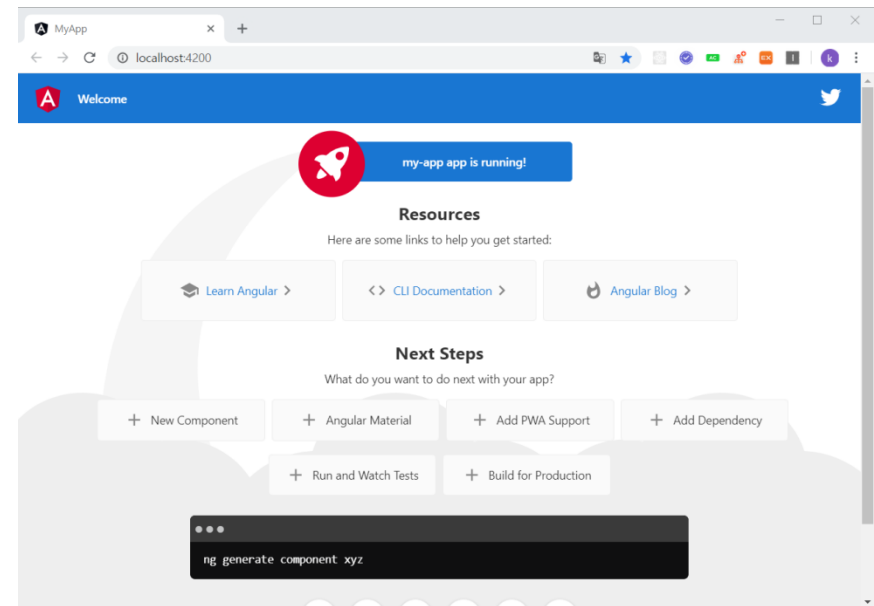
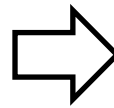


❑ 1) Angular 환경 설정

Step 3: Run the application

```
cd my-app  
ng serve --open
```

```
ngcc (worker)  
c:\Wangular>cd my-app  
  
c:\Wangular\my-app>ng serve --open  
? Would you like to share anonymous usage data about this project  
? Would you like to share anonymous usage data about this project  
? Would you like to share anonymous usage data about this project  
with the Angular Team at  
Google under Google's Privacy Policy at https://policies.google.c  
o/m/privacy? For more  
details and how to change this setting, see http://angular.io/anal  
ytics. Yes  
  
Thank you for sharing anonymous usage data. Would you change your  
mind, the following  
command will disable this feature entirely:  
  
    ng analytics project off  
  
Compiling @angular/core : es2015 as esm2015  
Compiling @angular/animations : es2015 as esm2015  
Compiling @angular/compiler/testing : es2015 as esm2015  
Compiling @angular/common : es2015 as esm2015  
Compiling @angular/animations/browser : es2015 as esm2015  
Compiling @angular/core/testing : es2015 as esm2015
```



□ 작업환경 설정(단계별 요약)

1. 작업폴더 생성, angular cli 설치예시

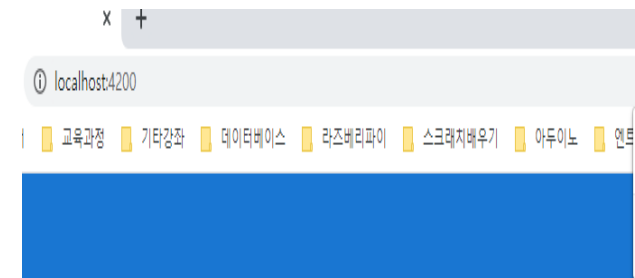
```
C:\#>mkdir Angular_Study_chul_2  
C:\#>cd angular_study_chul_2  
C:\#Angular_Study_chul_2>npm install -g @angular/cli
```

2. 설치 후 개인 프로젝트 생성

```
C:\#Angular_Study_chul_2>ng new chul-app
```

3. 설치 후 개인 프로젝트 생성 후 서버 가동 테스트

```
C:\#Angular_Study_chul_2>cd chul-app  
C:\#Angular_Study_chul_2#chul-app>ng serve --open
```



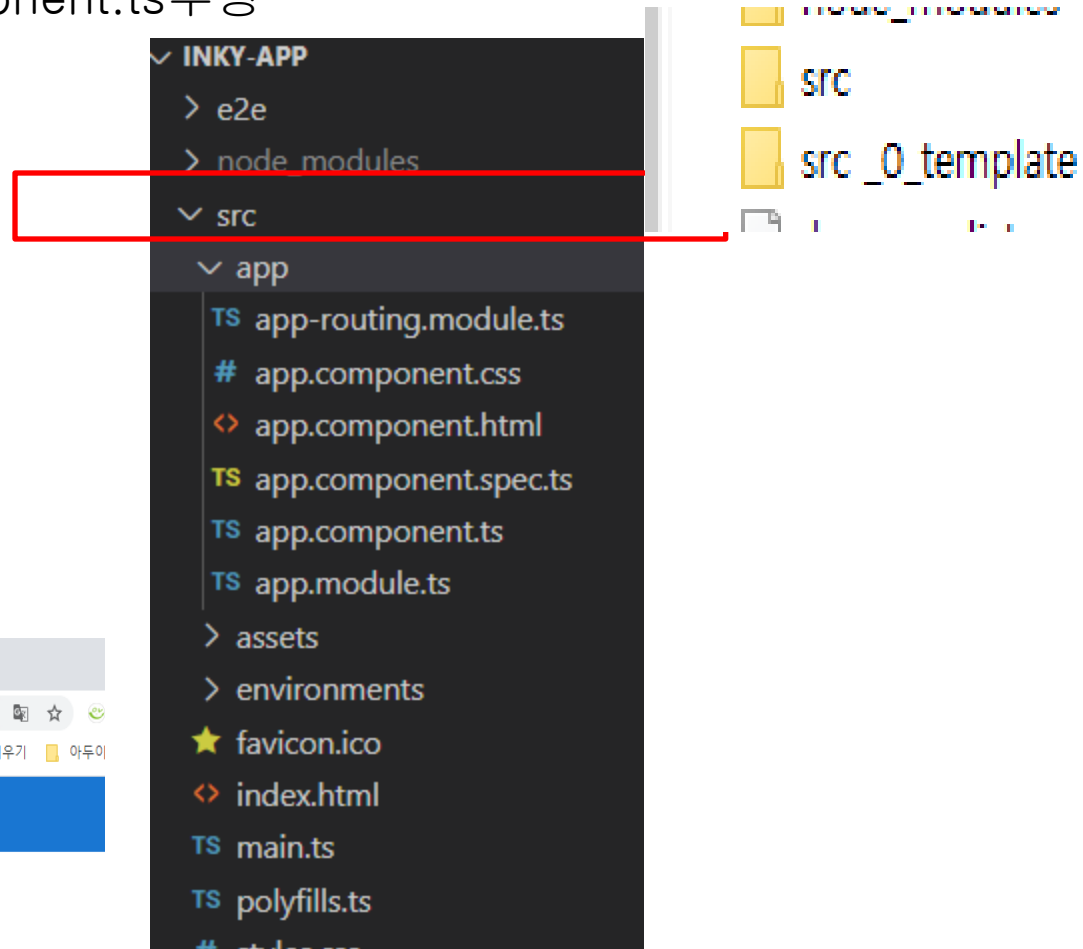
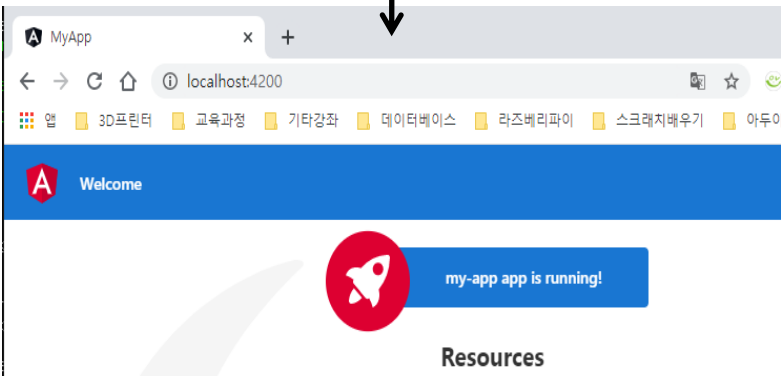
inky-app app is running!

❑ 1) Angular 환경 설정

step 1에서 생성한 C:\Wangular 디렉토리에서 반드시 실행
Mkdir angular 후 cd angular로 이동 후 src폴더 복사 template로 만들기
이후 app폴더의 app.component.ts수정

```
ng new my-app
```

```
cd my-app  
ng serve --open
```



) > angular_chul > chul-app

이름	수정한 날짜
.git	2020-10-15
assets	2020-10-18
e2e	2020-10-15
node_modules	2020-10-18
src	2020-10-18
src template	2020-10-18
.browserslistrc	2020-10-15
.editorconfig	2020-10-15
.gitignore	2020-10-15
angular.json	2020-10-18
debug.log	2020-10-18
karma.conf.js	2020-10-15

백업

_course(07_14) > 9_1_ANGULAR > SOURCE > SOURCE_CHUL_2020_

이름	수정한
src template	2020-10-18
src_1_CHIILD실습	2020-10-18
src_2_도서목록_실습문제_1	2020-10-18
src_3_바인딩_{{}}1_인터플레이션	2020-10-18
src_4_바인딩_{{}}2_json	2020-10-18
src_4_바인딩_{{}}3_외부Person_import	2020-10-18
src_4_바인딩_{{}}4_Book_ngFor	2020-10-18
src_4강_바인딩_{{}}4_Book1_interface	2020-10-18

C:\ > angular_chul > inky-app >

이름	수정한 날짜
.git	2020-10-15
e2e	2020-10-15
node_modules	2020-10-18
src_4강_바인딩4_이벤트3_select_checkb...	2020-10-18
src_template	2020-10-18
browserslistrc	2020-10-15

복사 붙여넣기 이후 서버
종료 후 SRC로 변경 사용



서버의 실행
Ng Serve 실행

```
ms  
your browser on http://localhost:4200/ **
```

-ctrl+ 클릭

:--port 변경시

Ng serve --port 4001 --open

```
C:\angular_chul\inky-app>ng serve --port 4001 --open  
Compiling @angular/core : es2015 as esm2015  
Compiling @angular/common : es2015 as esm2015  
Compiling @angular/platform-browser : es2015 as esm2015  
Compiling @angular/platform-browser-dynamic : es2015 as esm2015  
  
chunk {main} main.js, main.js.map (main) 11 kB [initial] [rendered]  
chunk {polyfills} polyfills.js, polyfills.js.map (polyfills) 141 kB [initial]
```

자식 컴포넌트의 생성

:ng g component child

```
C:\angular_chul\chul-app>ng g component child  
CREATE src/app/child/child.component.html (20 bytes)  
CREATE src/app/child/child.component.spec.ts (619 bytes)  
CREATE src/app/child/child.component.ts (271 bytes)  
CREATE src/app/child/child.component.css (0 bytes)  
UPDATE src/app/app.module.ts (471 bytes)
```



수고하셨습니다.
