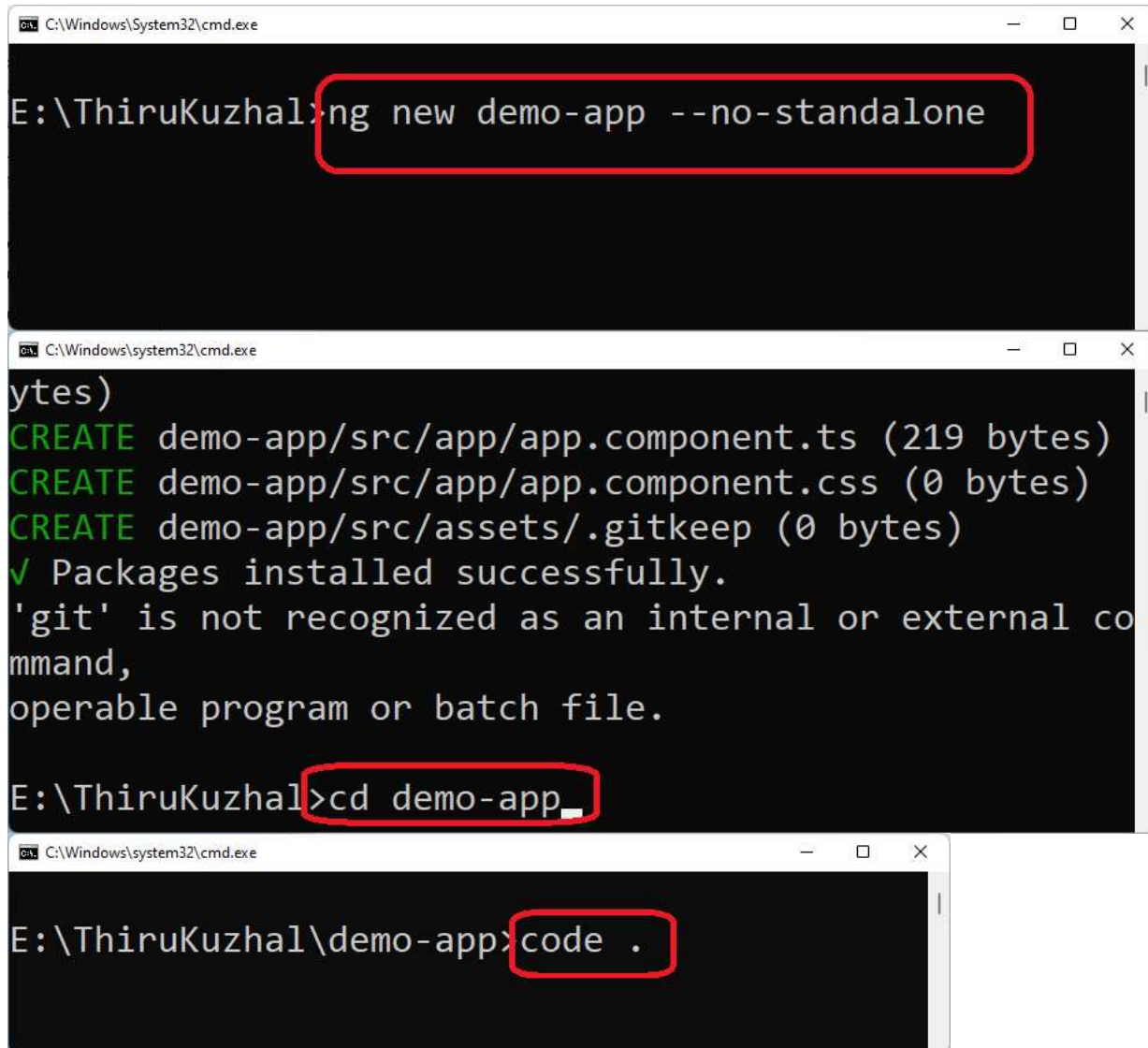


Mepco Schlenk Engineering College, Sivakasi

Department of Computer Science and Engineering

Angular Study page (III-CSE-B 2023_2024)

Custom directive demo

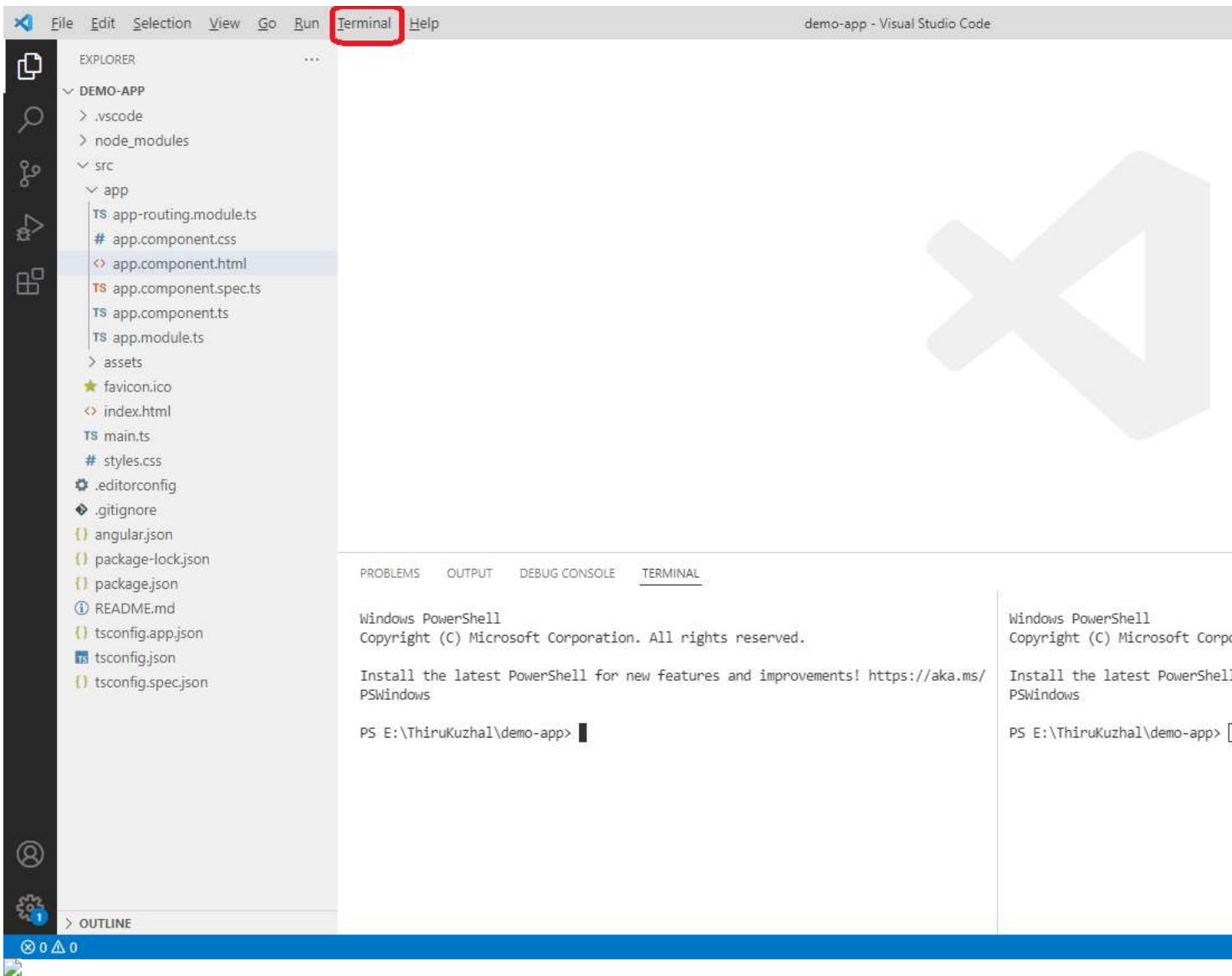


The image displays three sequential screenshots of a Windows command prompt window, illustrating the process of creating and running an Angular application.

First Screenshot: The command prompt shows the directory `E:\ThiruKuzhal`. The command `ng new demo-app --no-standalone` is entered and highlighted with a red box.

Second Screenshot: The command prompt shows the output of the previous command. It lists the files created: `demo-app/src/app/app.component.ts` (219 bytes), `demo-app/src/app/app.component.css` (0 bytes), and `demo-app/src/assets/.gitkeep` (0 bytes). It also shows the message "Packages installed successfully." and a warning that 'git' is not recognized as an internal or external command, operable program or batch file. The command `cd demo-app` is entered and highlighted with a red box.

Third Screenshot: The command prompt shows the directory `E:\ThiruKuzhal\demo-app`. The command `code .` is entered and highlighted with a red box.





Hello, demo-app

Congratulations! Your app is running. 🎉

[Explore the Docs](#)

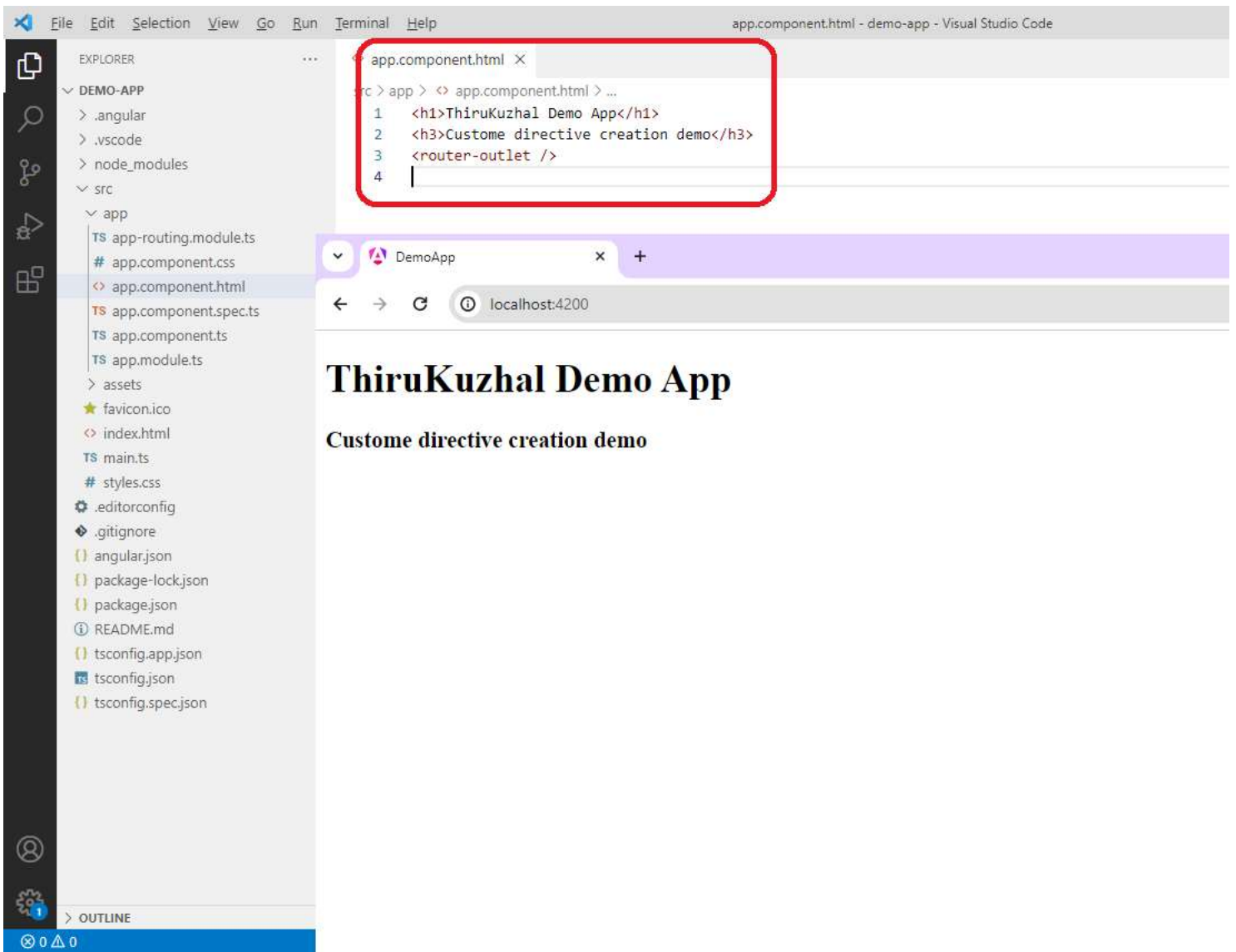
[Learn with Tutorials](#)

[CLI Docs](#)

[Angular Language Ser](#)

[Angular DevTools](#)





```
PS E:\ThiruKuzhal\demo-app> ng g c custom-directive
CREATE src/app/custom-directive/custom-directive.component.html (32 bytes)
CREATE src/app/custom-directive/custom-directive.component.spec.ts (688 bytes)
CREATE src/app/custom-directive/custom-directive.component.ts (248 bytes)
CREATE src/app/custom-directive/custom-directive.component.css (0 bytes)
UPDATE src/app/app.module.ts (533 bytes)
PS E:\ThiruKuzhal\demo-app>
```

The screenshot displays the Visual Studio Code editor and a web browser. In the VS Code Explorer, the file `custom-directive` is selected. The editor shows the `app.component.html` file with the following content:

```
src > app > <> app.component.html > ...
1 <h1>ThiruKuzhal Demo App</h1>
2 <h3>Custome directive creation demo</h3>
3
4 <app-custom-directive></app-custom-directive>
5 <router-outlet></router-outlet>
6
```

The browser window shows the rendered application with the title "ThiruKuzhal Demo App" and the heading "Custome directive creation demo". A red box highlights the text "custom-directive works!" in the browser, indicating that the custom directive is functioning correctly.

myhighlight.directive.ts - demo-app - Visual Studio Code

EXPLORER

- DEMO-APP
 - .angular
 - .vscode
 - node_modules
 - src
 - app
 - custom-directive
 - TS app-routing.module.ts
 - # app.component.css
 - <> app.component.html
 - TS app.component.spec.ts
 - TS app.component.ts
 - TS app.module.ts
 - TS myhighlight.directive.spec.ts
 - TS myhighlight.directive.ts
 - assets
 - ★ favicon.ico
 - <> index.html
 - TS main.ts
 - # styles.css
 - ⚙️ .editorconfig
 - 📁 .gitignore
 - { } angular.json
 - { } package-lock.json
 - { } package.json
 - { } README.md
 - { } tsconfig.app.json
 - { } tsconfig.json
 - { } tsconfig.spec.json

PROBLEMS

- Page reload
- Initial d
- main.js
- Applicati
- Page reload
- Initial d
- main.js
- Applicati
- Page reload

myhighlight.directive.ts

```
src > app > TS myhighlight.directive.ts > ...
1  import { Directive } from '@angular/core';
2
3  @Directive({
4    selector: '[appMyhighlight]'
5  })
6  export class MyhighlightDirective {
7
8    constructor() { }
9
10 }
11
```

Add new directive

```
PS E:\ThiruKuzhal\demo-app> ng g directive myhighl
CREATE src/app/myhighlight.directive.spec.ts (252 b
CREATE src/app/myhighlight.directive.ts (161 bytes)
UPDATE src/app/app.module.ts (625 bytes)
PS E:\ThiruKuzhal\demo-app>
```

Step 2

EXPLORER

- DEMO-APP
 - .angular
 - .vscode
 - node_modules
 - src
 - app
 - custom-directive
 - TS app-routing.module.ts
 - # app.component.css
 - <> app.component.html
 - TS app.component.spec.ts
 - TS app.component.ts
 - TS app.module.ts
 - TS myhighlight.directive.spec.ts
 - TS myhighlight.directive.ts
 - assets
 - ★ favicon.ico
 - <> index.html
 - TS main.ts
 - # styles.css
 - ⚙️ .editorconfig
 - 📁 .gitignore
 - { } angular.json
 - { } package-lock.json
 - { } package.json
 - { } README.md
 - { } tsconfig.app.json
 - { } tsconfig.json
 - { } tsconfig.spec.json

PROBLEMS

- Page reload
- Initial d
- main.js
- Applicati
- Page reload
- Initial d
- main.js
- Applicati
- Page reload

myhighlight.directive.ts

```
src > app > TS myhighlight.directive.ts > ...
1  import { Directive } from '@angular/core';
2
3  @Directive({
4    selector: '[Myhighlight]'
5  })
6  export class MyhighlightDirective {
7
8    constructor() { }
9
10 }
11
```

step3 modify

FileEditSelectionViewGoRunTerminalHelp

myhighlight.directive.ts - demo-app - Visual Studio Code

EXPLORER

DEMO-APP

- > .angular
- > .vscode
- > node_modules
- > src
 - > app
 - > custom-directive
 - TS app-routing.module.ts
 - # app.component.css
 - <> app.component.html
 - TS app.component.spec.ts
 - TS app.component.ts
 - TS app.module.ts
 - TS myhighlight.directive.spec.ts
 - TS myhighlight.directive.ts
 - > assets
 - ★ favicon.ico
 - <> index.html
 - TS main.ts
 - # styles.css
 - ⚙ .editorconfig
 - 🔒 .gitignore
 - { } angular.json
 - { } package-lock.json
 - { } package.json
 - 📖 README.md
 - { } tsconfig.app.json
 - 📘 tsconfig.json
 - { } tsconfig.spec.json

OUTLINE

app.component.htmlcustom-directive.component.htmlmyhighlight.directive.ts

src > app > TS myhighlight.directive.ts > MyhighlightDirective > constructor

1import { Directive, ElementRef } from '@angular/core';
2
3@Directive({
4 selector: '[Myhighlight]'
5})
6export class MyhighlightDirective {
7
8 constructor(private ele:ElementRef) { }
9
10}
11

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

Page reload sent to client(s).
Initial chunk files | Names | Raw size
main.js | main | 4.33 kB |
Application bundle generation complete. [0.063 seconds]
Page reload sent to client(s).
Initial chunk files | Names | Raw size
main.js | main | 4.40 kB |
Application bundle generation complete. [0.079 seconds]
Page reload sent to client(s).
[]

PS E:\ThiruKuzhal\demo-app>
CREATE src/app/myhighlight.di
CREATE src/app/myhighlight.di
UPDATE src/app/app.module.ts
PS E:\ThiruKuzhal\demo-app>

myhighlight.directive.ts - demo-app - Visual Studio Code

EXPLORER

- DEMO-APP
 - .angular
 - .vscode
 - node_modules
 - src
 - app
 - custom-directive
 - app-routing.module.ts
 - app.component.css
 - app.component.html
 - app.component.spec.ts
 - app.component.ts
 - app.module.ts
 - myhighlight.directive.spec.ts
 - myhighlight.directive.ts
 - assets
 - favicon.ico
 - index.html
 - main.ts
 - styles.css
 - .editorconfig
 - .gitignore
 - angular.json
 - package-lock.json
 - package.json
 - README.md
 - tsconfig.app.json
 - tsconfig.json
 - tsconfig.spec.json

OUTLINE

src > app > TS myhighlight.directive.ts > MyhighlightDirective > addHighlighter

```
1 import { Directive, ElementRef, HostListener } from '@angular/core';
2
3 @Directive({
4   selector: '[Myhighlight]'
5 })
6 export class MyhighlightDirective {
7
8   constructor(private ele:ElementRef) { }
9
10  @HostListener('mouseover')
11  addHighlighter(){
12    this.ele.nativeElement.style.backgroundColor='red';
13  }
14
15 }
16
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Page reload sent to client(s).

Initial chunk files	Names	Raw size
main.js	main	4.40 kB

Application bundle generation complete. [0.079 seconds]

Page reload sent to client(s).

Initial chunk files	Names	Raw size
main.js	main	4.72 kB

Application bundle generation complete. [0.109 seconds]

Page reload sent to client(s).

PS E:\ThiruKuzhal\demo-app> n
CREATE src/app/myhighlight.di
CREATE src/app/myhighlight.di
UPDATE src/app/app.module.ts
PS E:\ThiruKuzhal\demo-app>

FileEditSelectionViewGoRunTerminalHelp

myhighlight.directive.ts - demo-app - Visual Studio Code

EXPLORER

DEMO-APP

> .angular

> .vscode

> node_modules

> src

> app

custom-directive

custom-directive.component.css

<> custom-directive.component.ht...

TS custom-directive.component.sp...

TS custom-directive.component.ts

TS app-routing.module.ts

app.component.css

<> app.component.html

TS app.component.spec.ts

TS app.component.ts

TS app.module.ts

TS myhighlight.directive.spec.ts

TS myhighlight.directive.ts

> assets

★ favicon.ico

<> index.html

TS main.ts

styles.css

⚙️ .editorconfig

🔒 .gitignore

{ } angular.json

{ } package-lock.json

{ } package.json

📖 README.md

{ } tsconfig.app.json

📘 tsconfig.json

{ } tsconfig.spec.json

> OUTLINE

app.component.html

custom-directive.component.html

TS myhighlight.directive.ts

src > app > TS myhighlight.directive.ts > MyhighlightDirective > removeHighlighter

```
4 selector: '[Myhighlight]'
5 })
6 export class MyhighlightDirective {
7
8   constructor(private ele:ElementRef) { }
9
10  @HostListener('mouseover')
11  addHighlighter(){
12    this.ele.nativeElement.style.backgroundColor='red';
13  }
14
15  @HostListener('mouseout')
16  removeHighlighter(){
17    this.ele.nativeElement.style.backgroundColor='';
18  }
19 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

```
main.js | main | 4.72 kB |
Application bundle generation complete. [0.109 seconds]
Page reload sent to client(s).
Initial chunk files | Names | Raw size
main.js | main | 4.85 kB |
Application bundle generation complete. [0.078 seconds]
Page reload sent to client(s).
No output file changes.
Application bundle generation complete. [0.068 seconds]
Initial chunk files | Names | Raw size
main.js | main | 5.05 kB |
Application bundle generation complete. [0.065 seconds]
Page reload sent to client(s).
[]
```

PS E:\ThiruKuzhal\demo-app> n

CREATE src/app/myhighlight.di

CREATE src/app/myhighlight.di

UPDATE src/app/app.module.ts

PS E:\ThiruKuzhal\demo-app> []

Try the output screen using mouse over and mouse out

myhighlight.directive.ts - demo-app - Visual Studio Code

EXPLORER

- DEMO-APP
 - .angular
 - .vscode
 - node_modules
 - src
 - app
 - custom-directive
 - custom-directive.component.css
 - custom-directive.component.html
 - custom-directive.component.spec.ts
 - custom-directive.component.ts
 - app-routing.module.ts
 - app.component.css
 - app.component.html
 - app.component.spec.ts
 - app.component.ts
 - app.module.ts
 - myhighlight.directive.spec.ts
 - myhighlight.directive.ts
 - assets
 - favicon.ico
 - index.html
 - main.ts
 - styles.css
 - .editorconfig
 - .gitignore
 - angular.json
 - package-lock.json
 - package.json
 - README.md
 - tsconfig.app.json
 - tsconfig.json
 - tsconfig.spec.json

OUTLINE

src > app > TS myhighlight.directive.ts > MyhighlightDirective > addHighlighter

```
1 import { Directive, ElementRef, HostListener, Input } from '@angular/core';
2
3 @Directive({
4   selector: '[Myhighlight]'
5 })
6 export class MyhighlightDirective {
7
8   @Input() Myhighlight:string="";
9
10  constructor(private ele:ElementRef) { }
11
12  @HostListener('mouseover')
13  addHighlighter(){
14    this.ele.nativeElement.style.backgroundColor=this.Myhighlight;
15  }
16
17  ngOnDestroy():void {
18  }
19 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

main.js | main | 4.85 kB |

Application bundle generation complete. [0.078 seconds]

Page reload sent to client(s).

No output file changes.

Application bundle generation complete. [0.068 seconds]

Initial chunk files	Names	Raw size
main.js	main	5.05 kB

Application bundle generation complete. [0.065 seconds]

Page reload sent to client(s).

Initial chunk files	Names	Raw size
main.js	main	5.13 kB

Application bundle generation complete. [0.121 seconds]

Page reload sent to client(s).

PS E:\ThiruKuzhal\demo-app> n
CREATE src/app/myhighlight.di
CREATE src/app/myhighlight.di
UPDATE src/app/app.module.ts
PS E:\ThiruKuzhal\demo-app> []