Directives

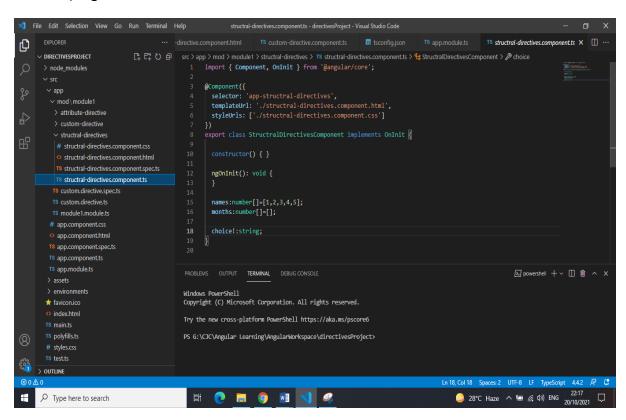
Directives are classes that add additional behavior to elements in your Angular applications. Use Angular's built-in directives to manage forms, lists, styles, and what users see.

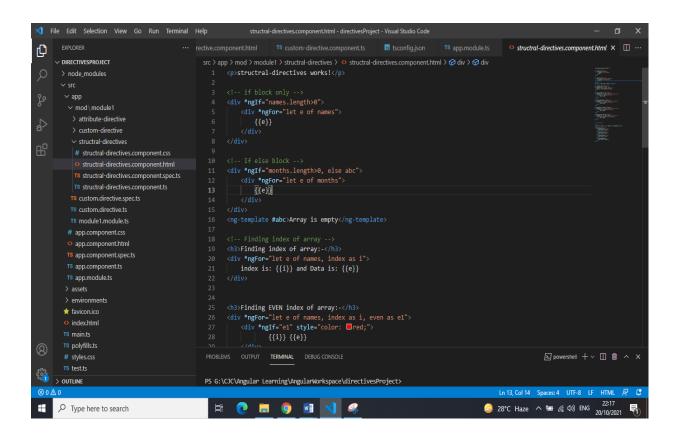
Three types of directives

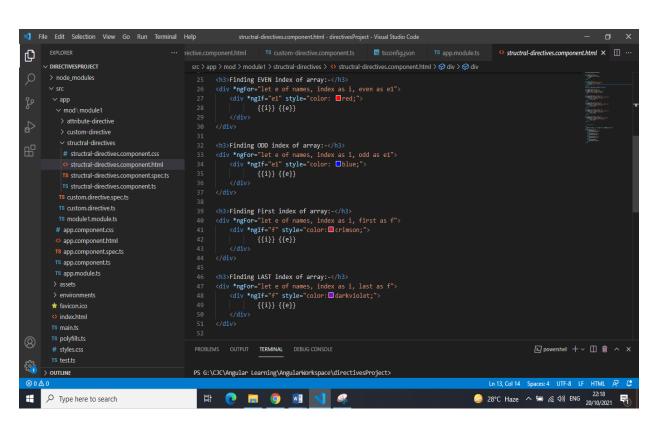
- 1) Structural Directive
- 2) Attribute Directive
- 3) Custom Directive

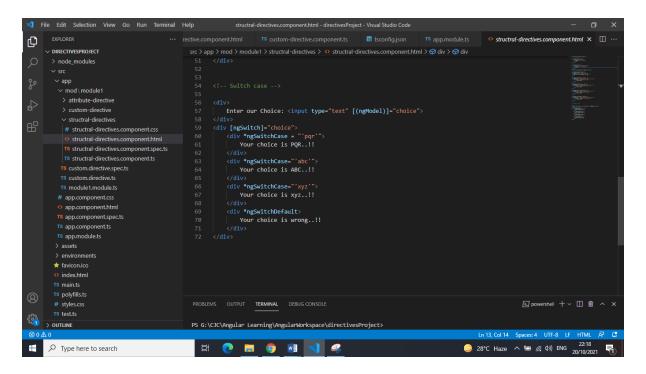
1) Structural Directive

- i)*ngIf
- ii)*ngFor
- ii)*ngSwitch









2) Attribute Directive

i)ngStyle

ii)ngClass

```
🜓 File Edit Selection View Go Run Terminal Help attribute-directive.component.html - FirstAngularDemo - Visual Studio Code
                                                                 opp.component.html opp.component.html x attribute-directive.component.ts
Ф
                                                                   ∨ FIRSTANGULARDEMO
        > node modules
                                                                          <div [ngStyle]="{'color':'red'}">
    Angular Directive example
            ∨ mod\module1
                                                                    TS attribute-directive.component.spec.ts
              TS attribute-directive.component.ts
                                                                          # employee-list.component.css
                                                                     13 An
14 </div>
               TS employee-list.component.spec.ts
                                                                     TS employee-list.component.ts
              > student-list
              TS custom.pipe.ts
                                                                                                                                                                                                             ≥ powershell + ∨ □ · · · ×
            # app.component.css
                                                                   GUEATE src/app/mod/module1/struct-directive/struct-directive.component.css (0 bytes)

UPDATE src/app/mod/module1/solucl.module.ts (746 bytes)

PS G.\COCVAngular Learning\B135\FirstAngularDemo> ng g c mod/module1/attribute-directive

CMEATE src/app/mod/module1/attribute-directive/attribute-directive.component.html (34 bytes)

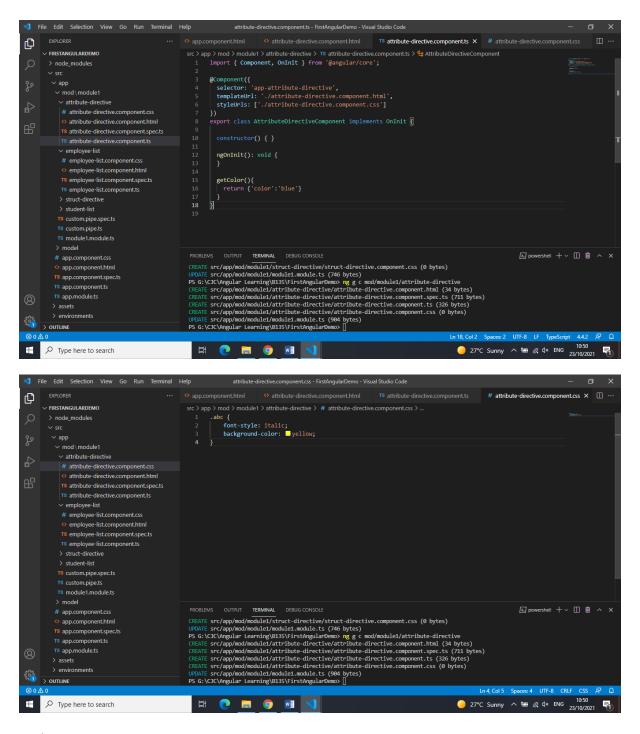
CMEATE src/app/mod/module1/attribute-directive/attribute-directive.component.spc.ts (711 bytes)

CMEATE src/app/mod/module1/attribute-directive/attribute-directive.component.scs (256 bytes)

UPDATE src/app/mod/module1/attribute-directive/attribute-directive.component.css (0 bytes)

UPDATE src/app/mod/module1/sodule1.module1.ts (940 bytes)

PS G:\CJC\Angular Learning\B135\FirstAngularDemo> []
            TS app.component.spec.ts
           > assets
                                                                                                                                                                                           Ln 17, Col 36 Spaces: 4 UTF-8 LF HTML 👨 🚨
                                                                                                                                                                                   O 27°C Sunny ^ ₪ // 4× ENG 10:50 23/10/2021
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```



Task1:

Depends on Country you have to change the background of div like as below image,

attribute-directive works!

```
ID:- 1 || NAME:- A || COUNTRY:- INDIA
ID:- 2 || NAME:- B || COUNTRY:- USA
ID:- 3 || NAME:- C || COUNTRY:- CHINA
ID:- 4 || NAME:- D || COUNTRY:- PARIS
```

```
3) Custom Directives
PS G:\CJC\Angular Learning\B135\FirstAngularDemo> ng g d mod/module1/customDir
CREATE src/app/mod/module1/custom-dir.directive.spec.ts (237 bytes)
CREATE src/app/mod/module1/custom-dir.directive.ts (147 bytes)
UPDATE src/app/mod/module1/module1.module.ts (1137 bytes)
Ç
                                                              TS custom-dir.directive.ts X TS student-list.component.ts
                                                  import { Directive, ElementRef, HostListener } from '@angular/core';
                                                @Directive({
    selector: '[appCustomDir]'
         TS student-list.component.ts
         # sudent-details.component.css
                                                  constructor(private ele: ElementRef) {
  console.log(ele);
  // ele.nativeElement.style.backgroundColor="yellow";
  // ele.nativeElement.innenHTML="CUSTOM directive";
  // ele.nativeElement.style.fontStyle="Italic"
          TS sudent-details.component.ts
         TS custom-dir.directive.ts
        TS module1.module.ts
                                                  @HostListener('mouseover') mouseOver(){
   this.ele.nativeElement.style.backgroundColor="red";
         TS student.spec.ts
        ∨ shared
         TS common.service.spec.ts
                                                      this.ele.nativeElement.stvle.backgroundColor="vellow":
        # app.component.css
        TS app.component.ts
                                            PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
                                            PS 6:\CJC\Angular Learning\Bijs\FirstAngularDemo> ng g c mod/module1/custom-directive
CREATE src/app/mod/module1/custom-directive/custom-directive.component.html (31 bytes)
CREATE src/app/mod/module1/custom-directive/custom-directive.component.spec.ts (690 bytes)
       # favicon.ico
                                                                                                                                                      ≥ po... []] 前
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     PS G:\CJC\Angular Learning\B135\FirstAngularDemo> ng g c mod/module1/custom-directive
CREATE src/app/mod/module1/custom-directive/custom-directive.component.html (31 bytes)
CREATE src/app/mod/module1/custom-directive/custom-directive.component.spec.ts (690 bytes)
CREATE src/app/mod/module1/custom-directive/custom-directive.component.ts (314 bytes)
 CREATE src/app/mod/module1/custom-directive/custom-directive.component.css (0 bytes)
 JPDATE src/app/mod/module1/module1.module.ts (1052 bytes)
 File Edit Selection View Go Run Terminal Help
                                                              Ð
                                            src > app > mod > module1 > custom-directive > ♦ custom-directive.component.html > ♦ div
     ∨ FIRSTANGULARDEMO
                                                 custom-directive works!
                                                  <div appCustomDir>
    Hello...Welcome to CUCTOM DIRECTIVE!!
         > attribute-directive
          TS custom-directive.component.ts
         > struct-directive
          > student-list
         TS custom-dir.directive.spec.ts
         TS custom.pipe.spec.ts
         TS module1.module.ts
        ∨ model
         TS student.ts
        TS common.service.ts
                                            PS G:\CZC\Angular Learning\B135\FirstAngularDemo> ng g c mod/modulet/custom-directive
CREATE src/app/mod/modulet/custom-directive/custom-directive.component.html (31 bytes)
CREATE src/app/mod/modulet/custom-directive/custom-directive/custom-ponent.spec.ts (690 bytes)
                                                                                                                                                       ≥ node

    app.component.html
```

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