Data Bindings

What is data binding?

In Angular, data binding is one of the most powerful and important features that allow you to define the communication between the component and DOM (Document Object Model). It basically simplifies the process of defining interactive applications without having to worry about pushing and pulling data between your view or template and component. In Angular, there are four forms of data binding:

- a. String Interpolation
- b. Property Binding
- c. Event Binding
- d. Two-Way Data Binding

1) String Interpolation

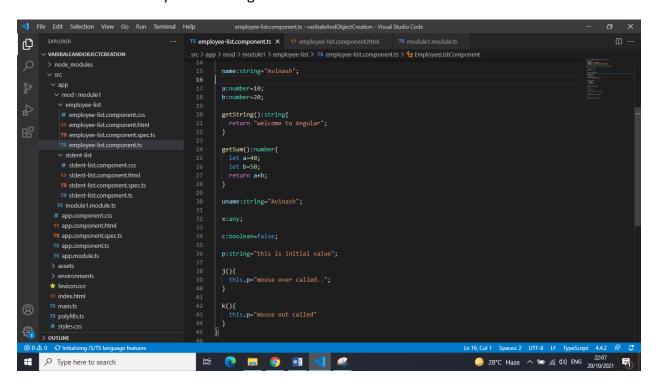
- > Symbol is :{{ }}
- Flow =>component.ts to component.html
- One way data binding

2) Property Binding:

- Symbol is:[]
- ➤ Flow=> component.ts to component.html
- One way data binding

3) Event Binding:

- Symbol=()
- > Flow=html to ts
- One way data binding



```
··· 18 employee-list.component.ts •• employee-list.component.html X 18 module1.module.ts
Ф
                                                                                                                                                                                                                                                                                                                                                                                                                                          src > app > mod > module1 > employee-list > ♦ employee-list.component.html > ♦ button

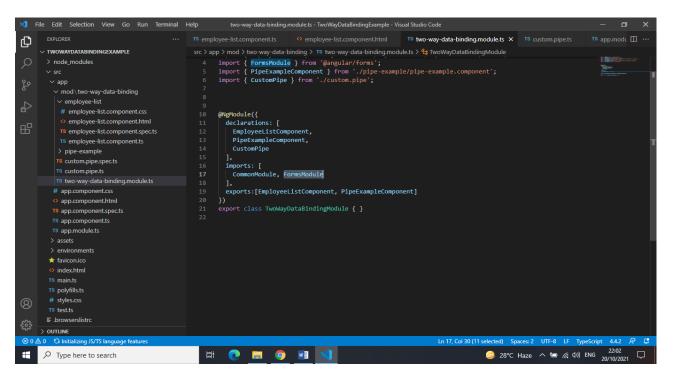
∨ VARIBALEANDOBJECTCREATION

                                                       > node modules
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <h3>STRING INTERPOLATION</h3>
                                                                                                                                                                                                                                                                                                                                                                                                                                                         {\name} \ \ \text{\name} \ \ \ \text{\name} \ \ \ \text{\name} \ \ \text{\name} \ \ \ \text{\name} \ \text{\name} \ \ \text{\name} \ \text{\name} \ \ \text{\name} \ \ \text{\name} \ \tex
                                                                                                  o employee-list.component.html
                                                                                                TS employee-list.component.spec.ts
                                                                                                                                                                                                                                                                                                                                                                                                                                                      10 {{getString()}}<br>
                                                                                             TS employee-list.component.ts
                                                                                                                                                                                                                                                                                                                                                                                                                                                         12 {{getSum()}}<br>
                                                                                                                                                                                                                                                                                                                                                                                                                                                      13
14 <h3>PROPERTY BINDING</h3>
                                                                                                                                                                                                                                                                                                                                                                                                                                                      15
16 USERNAME: <input type="text" [value]="uname"><br>
                                                                                             TS stdent-list.component.ts
                                                                                      TS module1.module.ts
                                                                              # app.component.css
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               $$ \hsize $$ \
                                                                         > assets
                                                                       > environments
                                                                       * favicon.ico
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ln 18, Col 39 Spaces: 4 UTF-8 LF HTML 🛱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      li 💽 🔚 🧿 🛂 🭕
                                                       Type here to search
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ($\limins 28°C Haze \( \sigma \) = ($\infty ($\limins (
```

4) Two way Data Binding

- Symbol=[(ngModel)]
- Flow = ts to html and html to ts

Step 1: Register the "FormsModule" in the import section, where your component is get registered in declarations section.



```
TS two-way-data-binding.module.ts
TWOWAYDATABINDINGEXAMPLE
                                           src > app > mod > two-way-data-binding > employee-list > T8 employee-list.component.ts > 😭 EmployeeListCompone
                                                 import { Component, OnInit } from '@angular/core';
> node_modules

✓ src

                                                 @Component({
                                                   selector: 'app-employee-list',
templateUrl: './employee-list.component.html',

∨ mod\two-way-data-binding

∨ employee-list

                                                   styleUrls: ['./employee-list.component.css']
    # employee-list.component.css
                                                 export class EmployeeListComponent implements OnInit {
   employee-list.component.html
  TS employee-list.component.spec.ts
                                                   constructor() { }
   TS employee-list.component.ts
   > pipe-example
                                                    ngOnInit(): void {
   TS custom.pipe.spec.ts
   TS custom.pipe.ts
                                                   name:string="Avinash";
  TS two-way-data-binding.module.ts
                                                   count:number=0;
  # app.component.css
                                                   no1!:number;
  app.component.html
  TS app.component.spec.ts
                                                    result!:number;
```