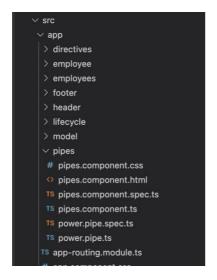
1. Add Pipes component by executing the below command from the angulardemo folder:

ng g c pipes

2. Add a custom pipe **from within the pipes folder** by executing the below command: ng g p power

```
    (base) Manishs-MacBook-Pro:angulardemo Shalini$ ng g c pipes
        Node.js version v17.5.0 detected.
        Odd numbered Node.js versions will not enter LTS status and should not be used for production.
        For more information, please see https://nodejs.org/en/about/releases/.
        CREATE src/app/pipes/pipes.component.css (0 bytes)
        CREATE src/app/pipes/pipes.component.html (20 bytes)
        CREATE src/app/pipes/pipes.component.spec.ts (592 bytes)
        CREATE src/app/pipes/pipes.component.ts (271 bytes)
        UPDATE src/app/app.module.ts (1236 bytes)
        (base) Manishs-MacBook-Pro:angulardemo Shalini$ cd src/app/pipes/
        (base) Manishs-MacBook-Pro:pipes Shalini$ ng g p power
        Node.js version v17.5.0 detected.
        Odd numbered Node.js versions will not enter LTS status and should not be used for production.
        For more information, please see https://nodejs.org/en/about/releases/.
        CREATE src/app/pipes/power.pipe.spec.ts (183 bytes)
        CREATE src/app/pipes/power.pipe.ts (215 bytes)
        UPDATE src/app/app.module.ts (1299 bytes)
```

3. Folder structure looks as follows:



- 4. Comment out the previous tags from app.component.html file and add <app-pipes> tag
- 5. There are various built-in pipes available which can be used to format the output. Lets have a look at various in-built pipes
- 6. Add the below in pipes.component.html file: <h3>Pipes Demo</h3>
- 7. Decimal Pipe:

```
{{ 3.14659265 | number: '3.1-2' }}
{{ 3.14659265 | number: '3.1-2' }}
```

```
For setting the Locale, add the following in app.module.ts
   import { registerLocaleData } from '@angular/common';
   import localeFr from '@angular/common/locales/fr';
   // the second parameter 'fr' is optional
   registerLocaleData(localeFr, 'fr');
   {{ 3.14159265 | number: '3.1-2' :'fr'}}
   {{ 3.14159265 | number: '3.1-2':'fr'}}
8. Inject Locale in constructor of pipes.component.ts as follows:
   constructor(@Inject(LOCALE ID) public locale: string) { }
9. Currency Pipe
   {{ 1234.56 | currency:'GBP':false }}
   {{ 1234.56 | currency:"GBP":true }}
   {{locale}}
10. Date Pipe:
   Add below property in pipes.component.ts:
   bdate = new Date()
   Add below in pipes.component.html
   {{bdate }}
   {{bdate | date:'short'}}
   {{bdate | date:'long'}}
   {{bdate | date:'medium'}}
11. JSON Pipe:
   Add below property in pipes.component.ts:
   object: Object = {foo: 'bar', baz: 'qux', nested: {xyz: 3, numbers: [1, 2, 3, 4, 5]}};
   Add below in pipes.component.html
   Without JSON pipe:
   <{object}}</pre>
   With JSON pipe:
   {{object | json}}
12. Lower and Upper case pipe
   Example:
   {{ 'ASIM' | lowercase }}
   Uppercase: Transforms a string to uppercase
   Example:
   {{ 'asim' | uppercase }}
```

```
13. Percent Pipe
  {{ 0.123456 | percent }}
  {{ 0.123456 | percent }}
                               //12.346%
  {{ 0.123456 | percent: '2.1-2' }}
  {{ 0.123456 | percent: '2.1-2' }}
                                    //12.35%
  {{ 42 | percent: '10.4-4' }}
  {{ 0.123456 | percent : "10.4-4" }}
        //0,000,000,012.3456%
14. Slice Pipe
  {{ [1,2,3,4,5,6] | slice:1:3 }}
  {{ [1,2,3,4,5,6] | slice:1:3 }} //2,3
    {{ [1,2,3,4,5,6] | slice:2 }}
    {{ [1,2,3,4,5,6] | slice:2 }} //3,4,5,6
    {{ [1,2,3,4,5,6] | slice:2:-1 }}
    {{ [1,2,3,4,5,6] | slice:2:-1 }} //3,4,5
    *ngFor='v of [1,2,3,4,5,6] | slice:2:-1'>
    ul>
                                     // 3 4 5
     *ngFor="let v of [1,2,3,4,5,6] | slice:2:-1">
      {{v}}
     15. Custom Pipe
  Modify transform function of power.pipe.ts:
  transform(value: number, ...args: number[]): unknown {
    console.log(value)
    console.log(args)
    let power = 0;
    if(args.length == 0)
     power = 2;
     else
     power = args[0]
    return value** power;
   }
  Add below in pipes.component.html
  {{ 20 | power}}
  20<sup>4</sup> : {{ 20 | power:5}}
```