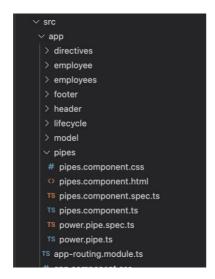
STEP 10: Pipes

- 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.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 inbuilt pipes
- 6. Add the below in pipes.component.html file: <h3>Pipes Demo</h3>
- 7. **Decimal Pipe:**

```
<pngNonBindable>{{ 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'); 
<pngNonBindable>{{ 3.14159265 | number: '3.1-2':'fr'}}
{{ 3.14159265 | number: '3.1-2':'fr'}}
```

```
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'}}
    https://angular.dev/api/common/DatePipe?tab=usage-notes
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}}
    With JSON pipe:
    <{re>{ object | json } }
12. Lower ,Upper, title case pipe
    Example:
    {{ 'ASIM' | lowercase }}
    Uppercase: Transforms a string to uppercase
    Example:
    <p>{{ 'asim' | uppercase }}</p>
    <h1>Purchases from {{ company | titlecase }}</h1>
    where company is a property in component
13. Percent Pipe
    {{ 0.123456 | percent }}
    <p>{{ 0.123456 | percent }}</p>
                                     //12.346%
    {{ 0.123456 | percent: '2.1-2' }}
    <p>{{ 0.123456 | percent: '2.1-2' }}</p>
    {{ 42 | percent: '10.4-4' }}
    <p>{{ 0.123456 | percent : "10.4-4" }}</p>
            //0,000,000,012.3456%
14. Slice Pipe
    {{ [1,2,3,4,5,6] | slice:1:3 }}
    \langle \mathbf{p} \rangle \{ \{ [1,2,3,4,5,6] \mid \text{slice}: 1:3 \} \} \langle /\mathbf{p} \rangle //2,3 \}
      {{ [1,2,3,4,5,6] | slice:2 }}
      <p>{{ [1,2,3,4,5,6] | slice:2 }}</p> //3,4,5,6
      {{ [1,2,3,4,5,6] | slice:2:-1 }}
      <p>{{ [1,2,3,4,5,6] | slice:2:-1 }}</p>
      *ngFor='v of [1,2,3,4,5,6] | slice:2:-1'>
              \{\{v\}\}
```

// 3 4 5

https://angular.dev/guide/templates/pipes

- 17. Custom Pipe
 - a. The naming convention for custom pipes consists of two conventions: name - camelCase is recommended. Do not use hyphens. class name - PascalCase version of the name with Pipe appended to the end
 - b. By default, all pipes are considered pure, which means that it only executes when a primitive input value (such as a String, Number, Boolean, or Symbol) or a changed object reference (such as Array, Object, Function, or Date). Pure pipes offer a performance advantage because Angular can avoid calling the transformation function if the passed value has not changed.

add pure:false to create impure pipe

c. Modify transform function of power.pipe.ts: