Module 3 – Angular Directives and Pipes

Demo Document 2 –Use of pipes for shopping list

edureka!

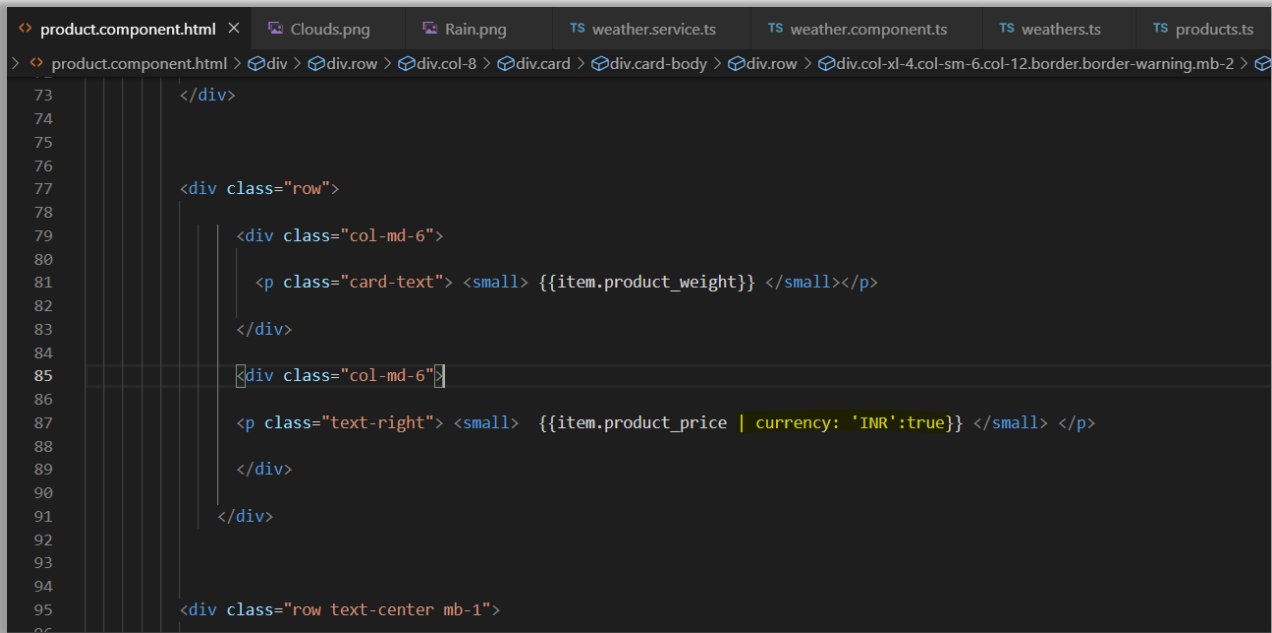**In this demo, we will see how to use built in pipe and a create custom pipe and use it in shopping list component created earlier.**

Step 1 – Open visual studio code, Open project folder created in Module 2 Demo1 (EdurekaDemo1)

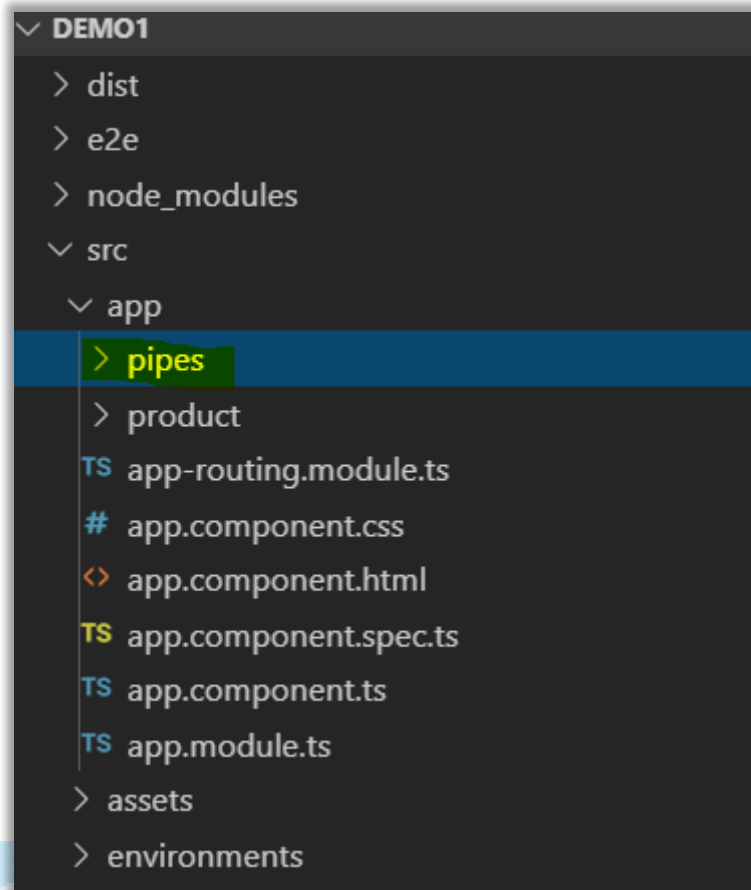**Step 2** – Navigate to src → app →product folder, open product.component.html file

Step 3 – We will use angular built in pipe to display currency symbol for rupee. Add pipe syntax as shown below to the product price
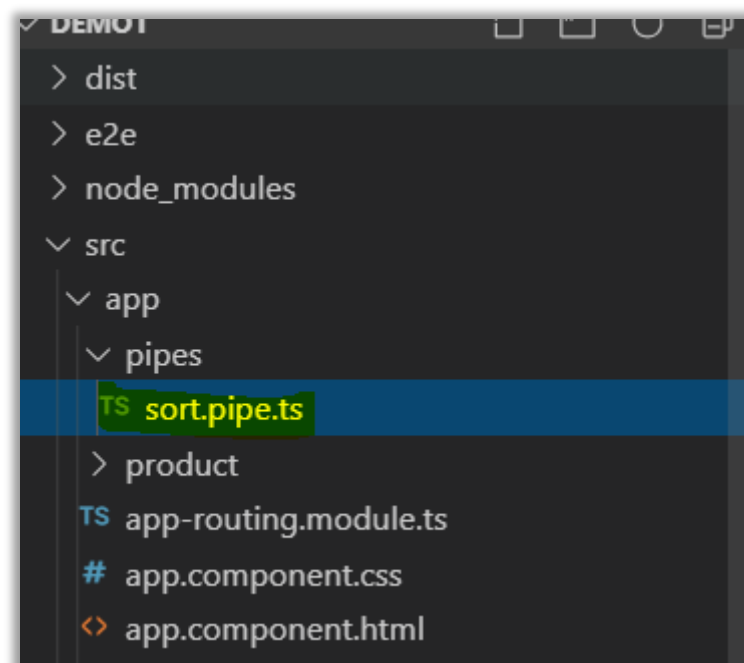

Step 4 – Create a custome pipe for sorting shopping list based on name and pipe.

Right click on src/app folder and create new folder. Name the new folder as 'pipes' as shown below
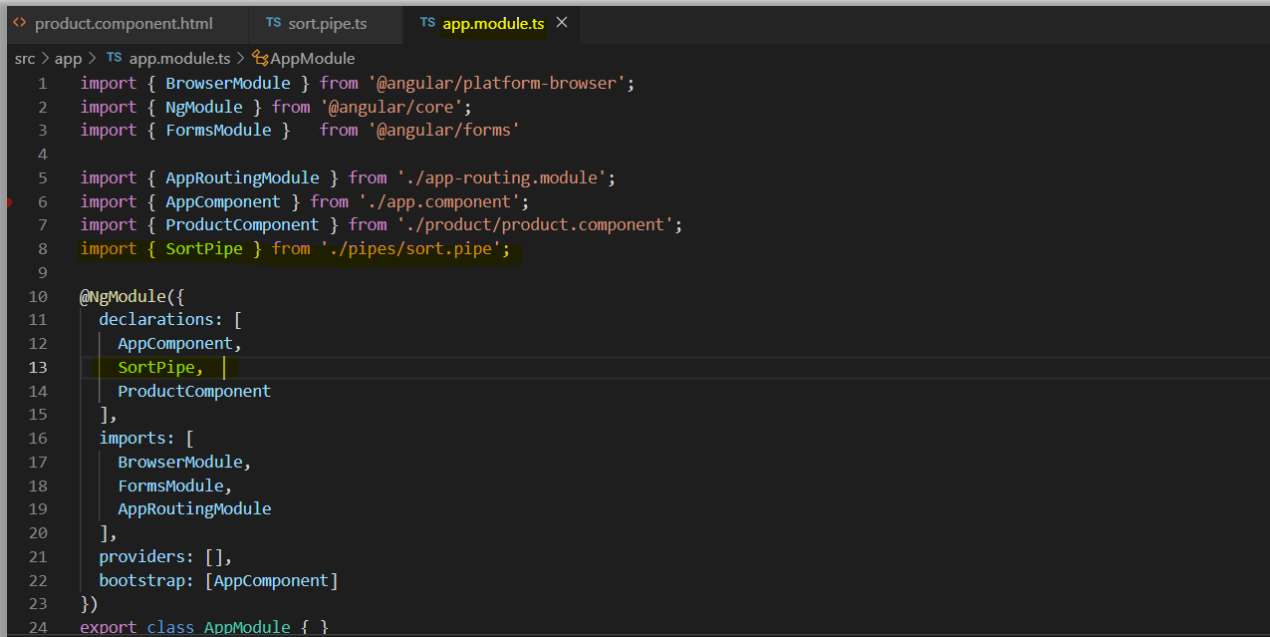
Step 5 – Right click on src/app/pipes folder and create new file , name new file as 'sort.pipe.ts'

Step 6 – Write sort logic in sort.pipe.ts file.

Step 7 – Open app.module.ts file and import newly created sort pipe in it.


```
                product.component.html    TS sort.pipe.ts    TS app.module.ts ✕

src > app > TS app.module.ts > AppModule
   1    import { BrowserModule } from '@angular/platform-browser';
   2    import { NgModule } from '@angular/core';
   3    import { FormsModule }   from '@angular/forms'
   4
   5    import { AppRoutingModule } from './app-routing.module';
   6    import { AppComponent } from './app.component';
   7    import { ProductComponent } from './product/product.component';
   8    import { SortPipe } from './pipes/sort.pipe';
   9
  10    @NgModule({
  11      declarations: [
  12        AppComponent,
  13        SortPipe,
  14        ProductComponent
  15      ],
  16      imports: [
  17        BrowserModule,
  18        FormsModule,
  19        AppRoutingModule
  20      ],
  21      providers: [],
  22      bootstrap: [AppComponent]
  23    })
  24    export class AppModule { }
```

Step 8 – Open product.component.ts file and add sortOption variable as shown below

```ts
TS product.component.ts ●
Demo1 > src > app > product > TS product.component.ts > ProductComponent > sortOption
1    import { Component, OnInit } from '@angular/core';
2
3
4
5    import { Product } from './Products';
6
7
8
9    @Component({
10     selector: 'app-product',
11     templateUrl: './product.component.html',
12     styleUrls: ['./product.component.css']
13   })
14
15   export class ProductComponent implements OnInit {
16
17
18
19   public sortOption: string ='product_name|asc';
20
21   products: Product[];
22
23   selectedProduct:Product;
24
25   productList: Product[]=[];
26
27    errorItem: boolean = false;
28
29
30
31     constructor() {}
32
```

Step 9 – Open product.component.html to add custom sort pipe to html file.

This will create dropdown for sort filter.

Step 10 – Add sortBy pipe to product array in product.component.html file as below.

```
      <option value="product_price|htl">Sort By Price (High to Low)</option>

    </select>

    </div>

  </div>

</div>

<div class="card-body">

  <div class="row">

    <div class="col-xl-4 col-sm-6 col-12 border border-warning mb-2" *ngFor = "let item of products | sortBy : sortOption">




      <div class="row text-center mb-2">

        <div class="col-12">

          <img class="img-fluid mt-3" src="{{item.product_image}}" alt="Card image cap">
```
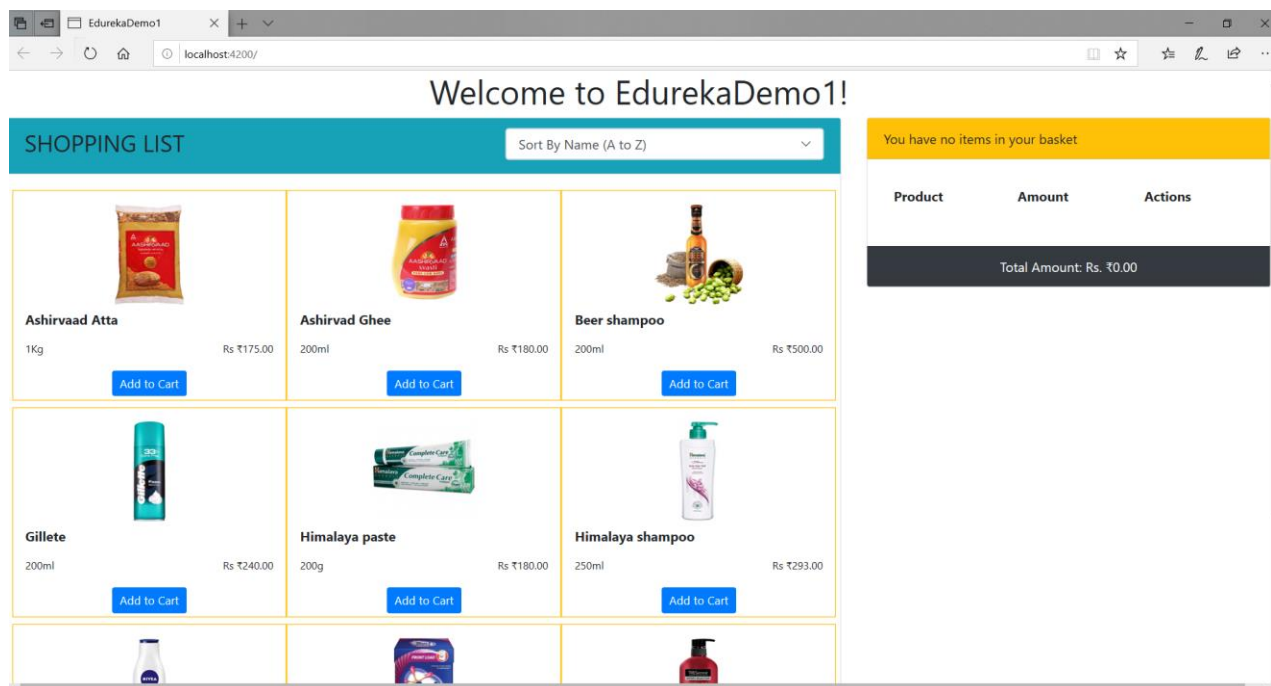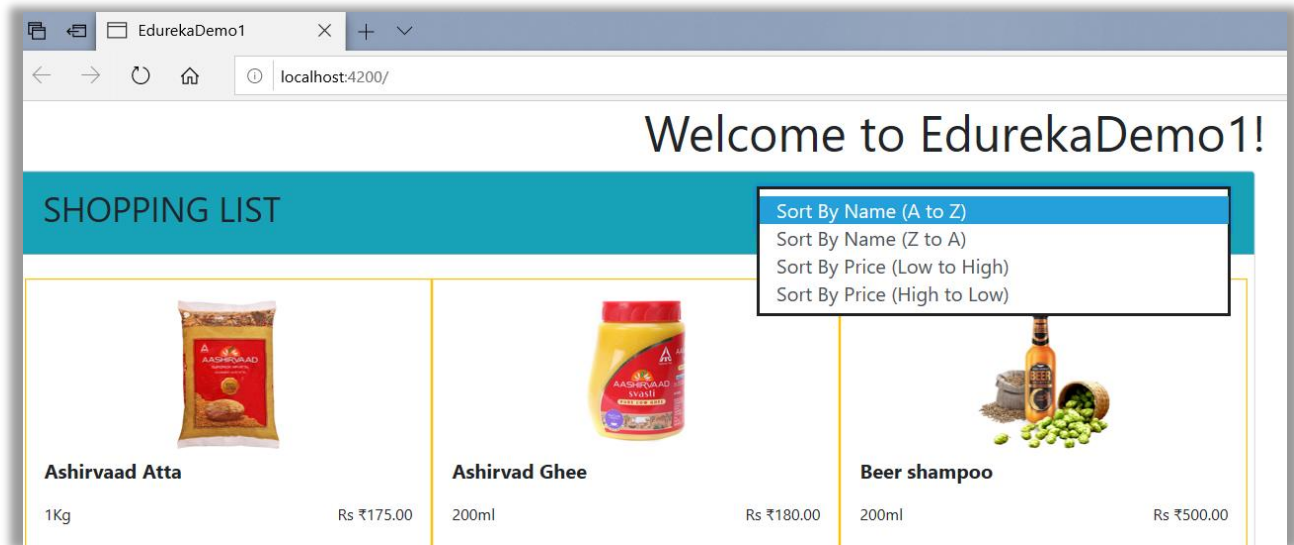
Step 11 – Run angular application by using command 'ng serve --open'

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

PS D:\Work\TapChief\Edureka\Angular8Demo\Module2\Demo1\edurekademo1> ng serve --open
```

Step 12 – This will open our shopping list app as shown below

Step 13 – We can see the use of both- built-in and custom pipe in the below screenshot. Currency symbol is displayed for rupee and sort filter is created