

Module 4 – Angular Directives and Pipes

Demo Document 2 –Use of pipes for shopping list

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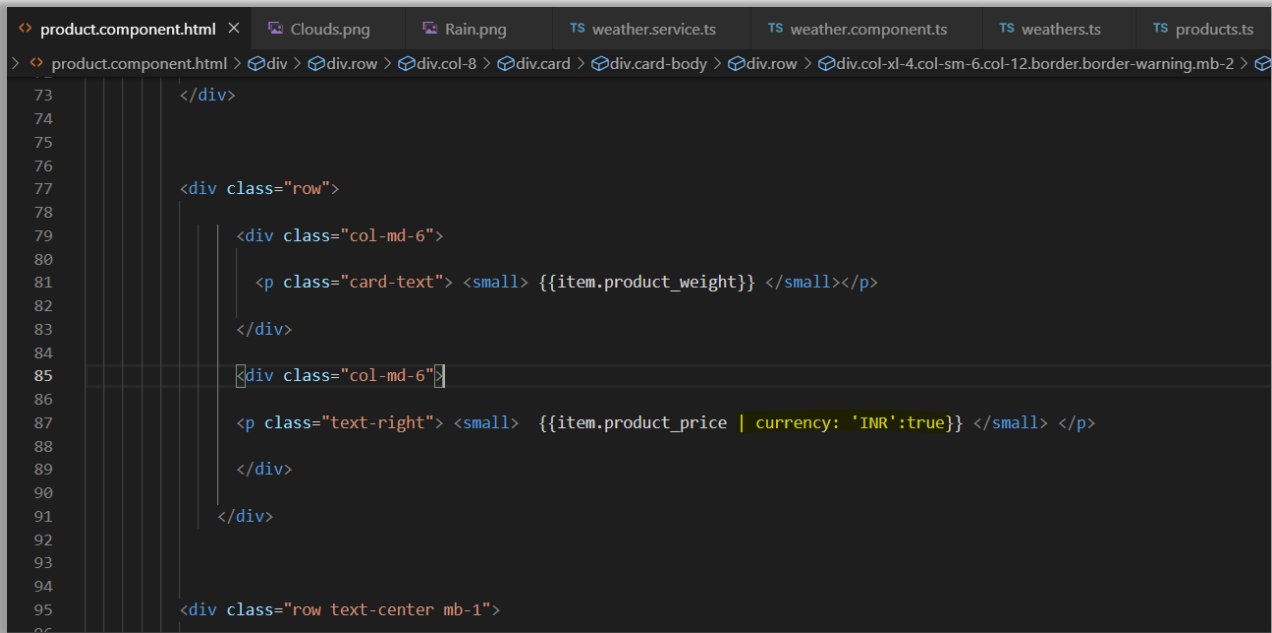
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In this demo, we will see how to use built in pipe and a create custom pipe and use it in shopping list component created earlier.

Step 1 – Open visual studio code, Open project folder created in Module 4 Demo1.

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

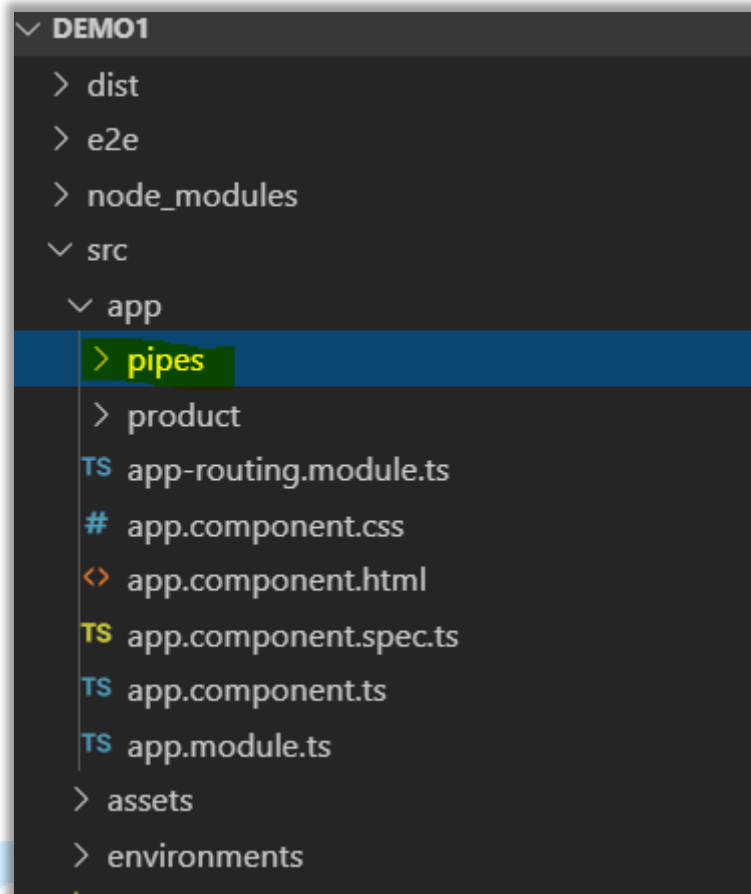
Step 3 – We will use angular built in pipe to display currency symbol for rupee. Add pipe syntax as shown below to the product price



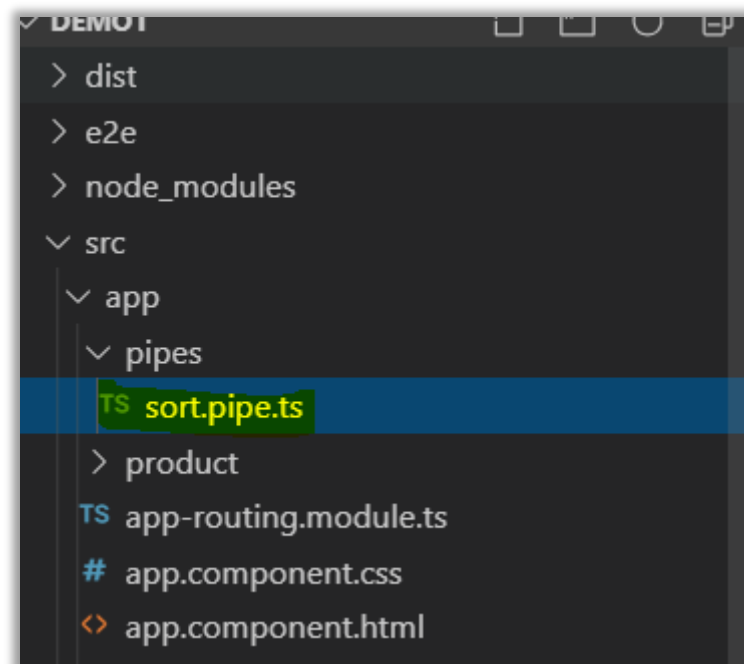
```
73 </div>
74
75
76
77 <div class="row">
78
79   <div class="col-md-6">
80     <p class="card-text"> <small> {{item.product_weight}} </small></p>
81   </div>
82
83   <div class="col-md-6">
84     <p class="text-right"> <small> {{item.product_price | currency: 'INR':true}} </small> </p>
85   </div>
86 </div>
87
88 <div class="row text-center mb-1">
```

Step 4 – Create a custom 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

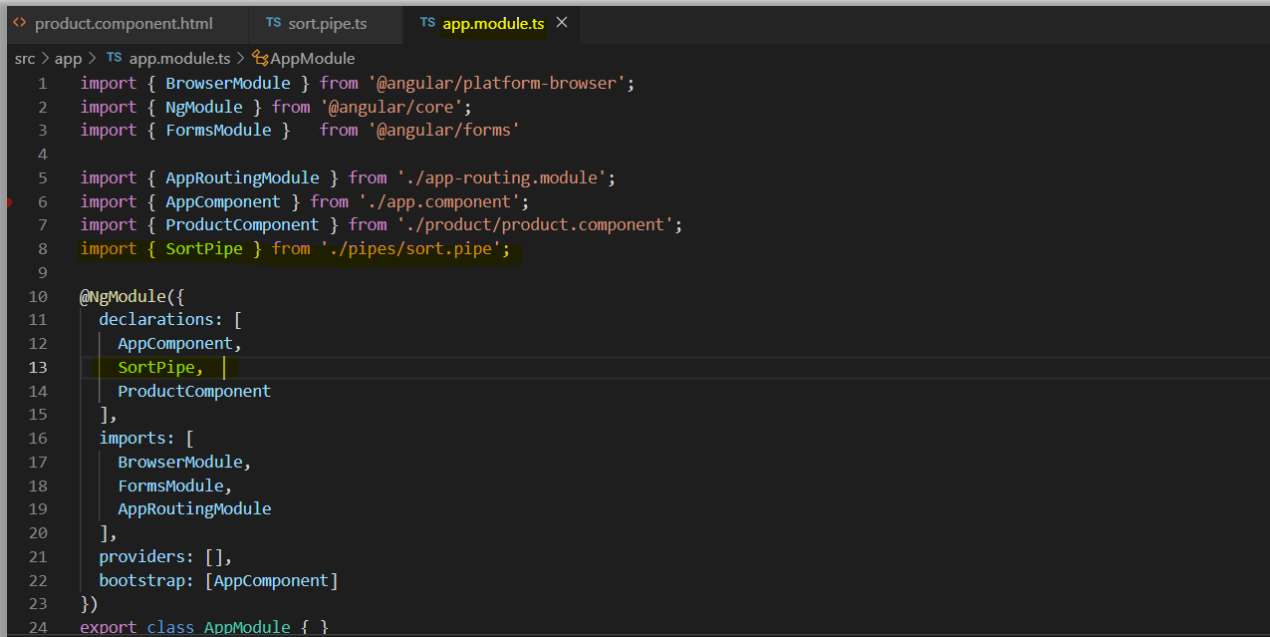


Step 5 – Right click on src/app/pipes folder and create new file , name new file as 'sort.pipe.ts'



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.



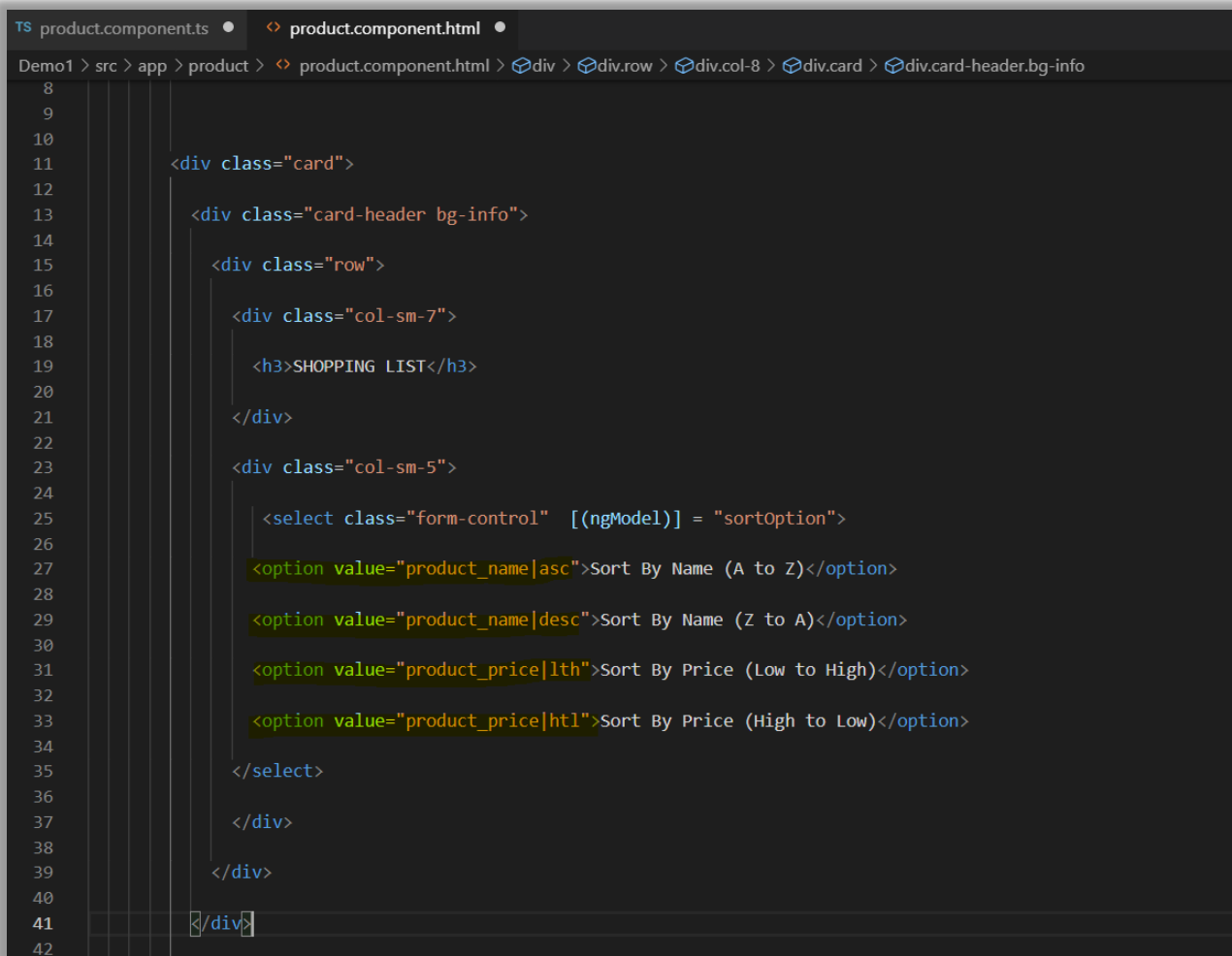
```
<> product.component.html  TS sort.pipe.ts  TS app.module.ts X
src > app > TS app.module.ts > AppModule
1  import { BrowserModule } from '@angular/platform-browser';
2  import { NgModule } from '@angular/core';
3  import { FormsModule } from '@angular/forms'
4
5  import { AppRoutingModule } from './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 { }
```

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

```
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.



```
8
9
10
11 <div class="card">
12
13   <div class="card-header bg-info">
14
15     <div class="row">
16
17       <div class="col-sm-7">
18
19         <h3>SHOPPING LIST</h3>
20
21       </div>
22
23       <div class="col-sm-5">
24
25         <select class="form-control" [(ngModel)] = "sortOption">
26
27           <option value="product_name|asc">Sort By Name (A to Z)</option>
28
29           <option value="product_name|desc">Sort By Name (Z to A)</option>
30
31           <option value="product_price|lth">Sort By Price (Low to High)</option>
32
33           <option value="product_price|htl">Sort By Price (High to Low)</option>
34
35         </select>
36
37       </div>
38
39     </div>
40
41   </div>
42
```

This will create dropdown for sort filter.

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

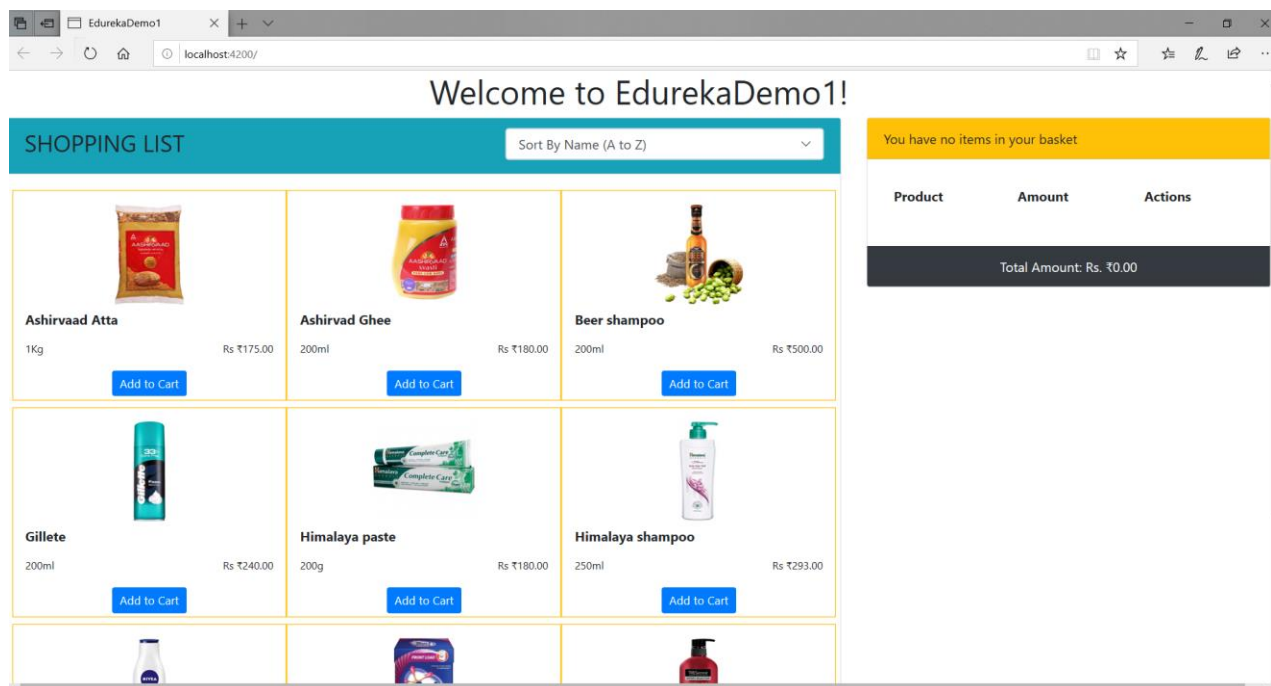
```
<option value="product_price|html">Sort By Price (High to Low)</option>
</select>
</div>
</div>
</div>
<div class="card-body">
  <div class="row">
    <div class="col-xl-4 col-sm-6 col-12 border border-warning mb-2" *ngFor = "let item of products | sortBy : sortOption">
      <div class="row text-center mb-2">
        <div class="col-12">
          

```

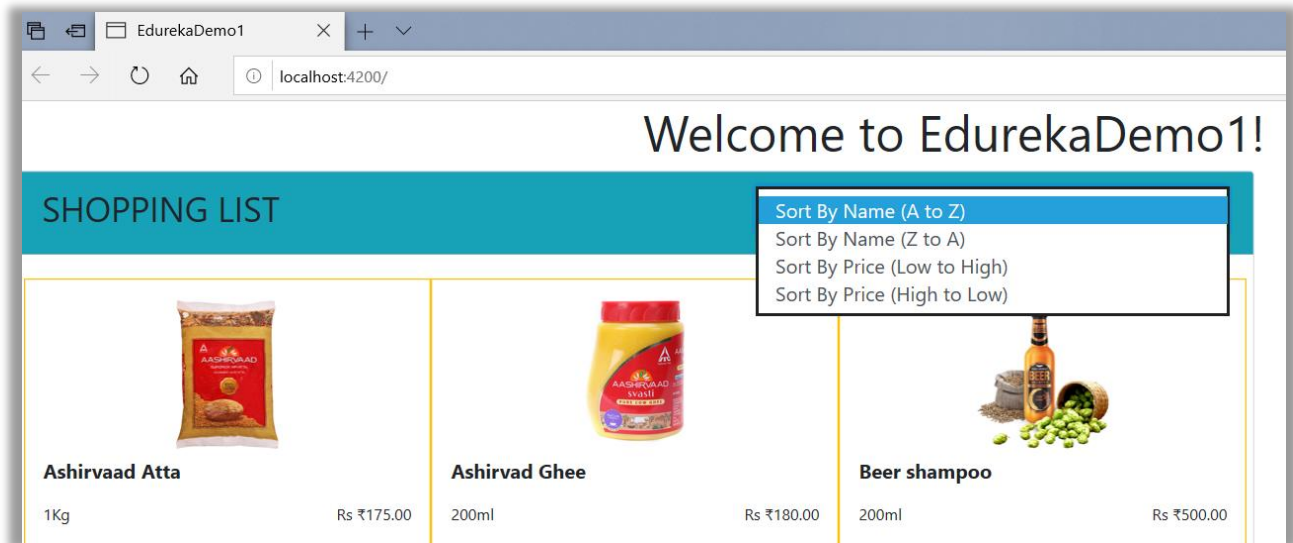
Step 11 – Run angular application by using command 'ng serve --open'

```
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



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