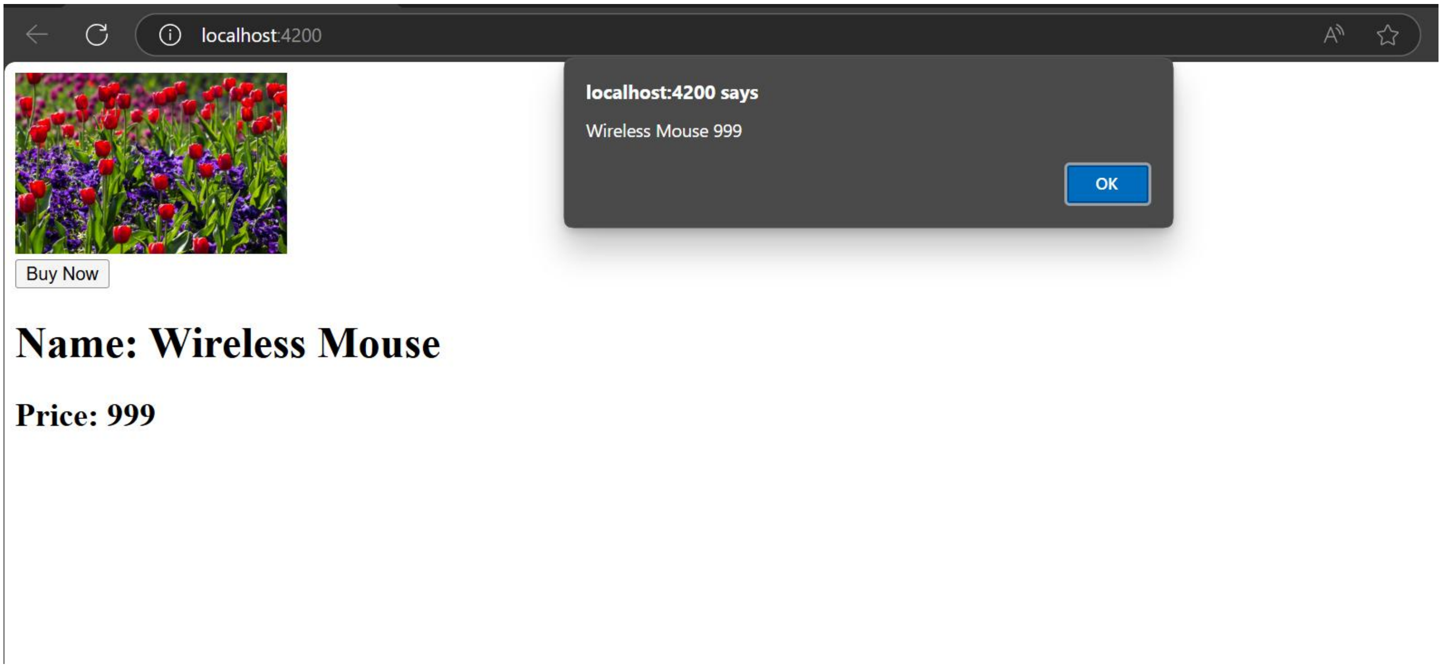
ANGULAR ASSIGNMENTS

Code

```
<img [src]="imageUrl" alt="Flower" class="small-image">
<br />
<h1>Name: {{name}}</h1>
<h2>Price: {{price}}</h2>
```

```
export class Assignment1Component {
  name:string= 'Wireless Mouse';
  imageUrl= './assets/flowers.jpg';

  price:number= 999;

}
```

Output:-



localhost:4200 says

Wireless Mouse 999

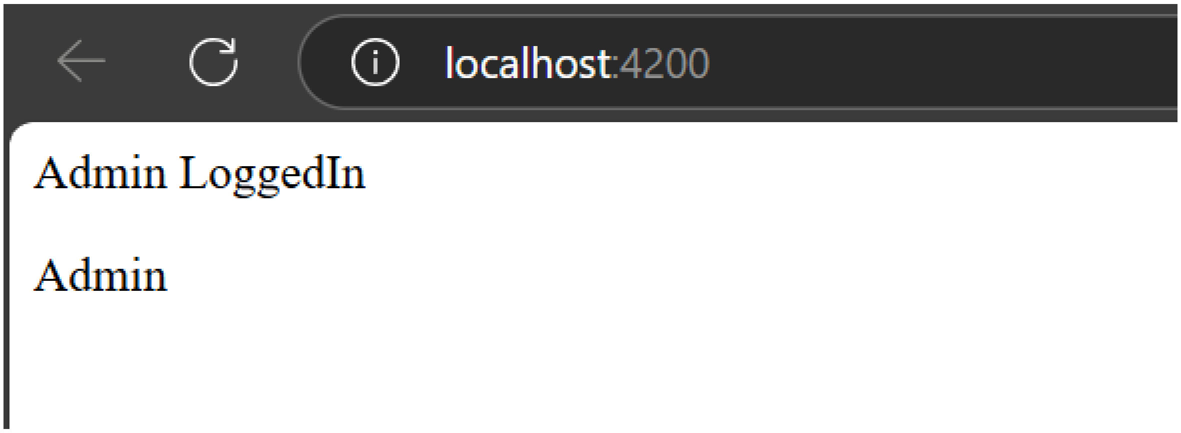
Name: Wireless Mouse

Price: 999

2. Code:-

```
<div *ngIf="userRole==='admin'">
   Admin LoggedIn
</div>
  <div [ngSwitch]="userRole">
    <p *ngSwitchCase="'admin'">Admin</p>
    <p *ngSwitchCase="'guest'">Guest</p>
    <p *ngSwitchCase="'user'">User</p>
    <p *ngSwitchDefault>Unknown Role</p>
  </div>


export class Assignment2Component {
  userRole: 'admin' | 'guest' | 'user' = 'admin';
}
```

Output:-

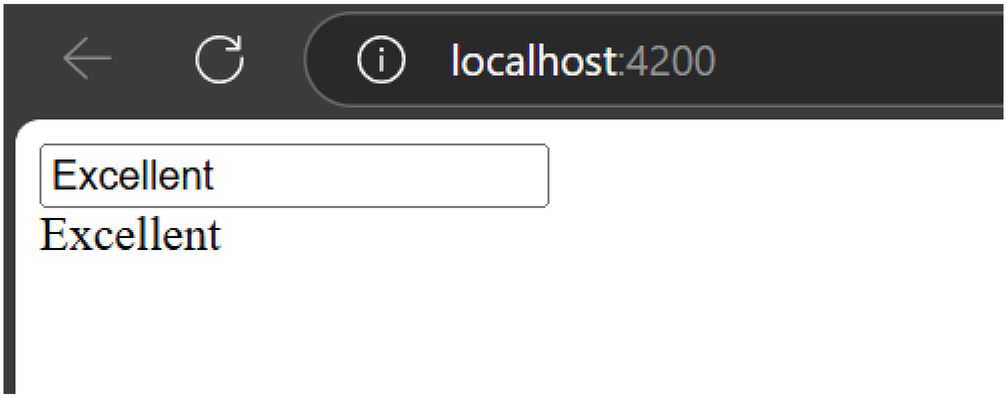


```
Admin LoggedIn

Admin
```

3. Code:-

```
<input placeholder="Enter Your feedback"
[(ngModel)]="feedback" />
<div>{{feedback}}</div>


import { Component } from '@angular/core';

@Component({
  selector: 'app-assignment-3',
  templateUrl: './assignment-3.component.html',
  styleUrls: ['./assignment-3.component.css']
})
export class Assignment3Component {
  feedback:string='';
}
```

Output:-



Excellent

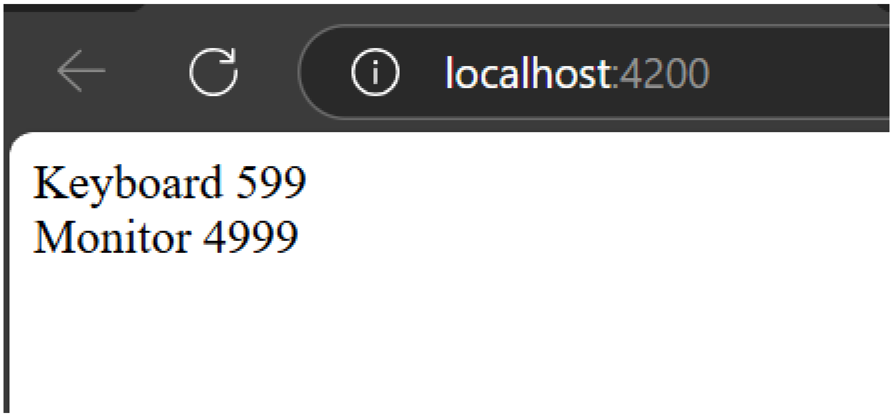
Excellent

4. Code

```
<div *ngFor="let product of products">
   {{product.name}}
   {{product.price}}
</div>
```

```
 products = [

   { name: 'Keyboard', price: 599 },

   { name: 'Monitor', price: 4999 }

   ];
```

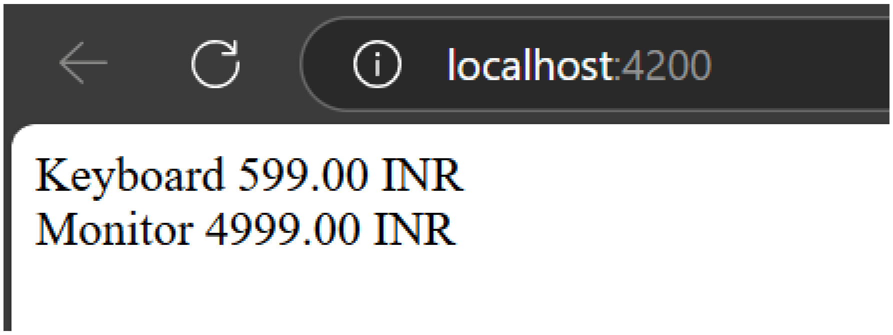
Output:-



```
Keyboard 599
Monitor 4999
```

5.

```
import { Pipe, PipeTransform } from '@angular/core';

@Pipe({
  name: 'priceFormat'
})
export class PriceFormatPipe implements PipeTransform {

  transform(value: number, ...args: unknown[]): unknown {
    if(args.length > 0 && args[0] === 'symbol'){
      return  "₹"+ value.toFixed(2) + " " + "INR";
    }
    else{
      return  value.toFixed(2) + " " + "INR";

    }
  }
}


<div *ngFor="let product of products">
   {{product.name}}
   {{product.price | priceFormat}}
</div>
```

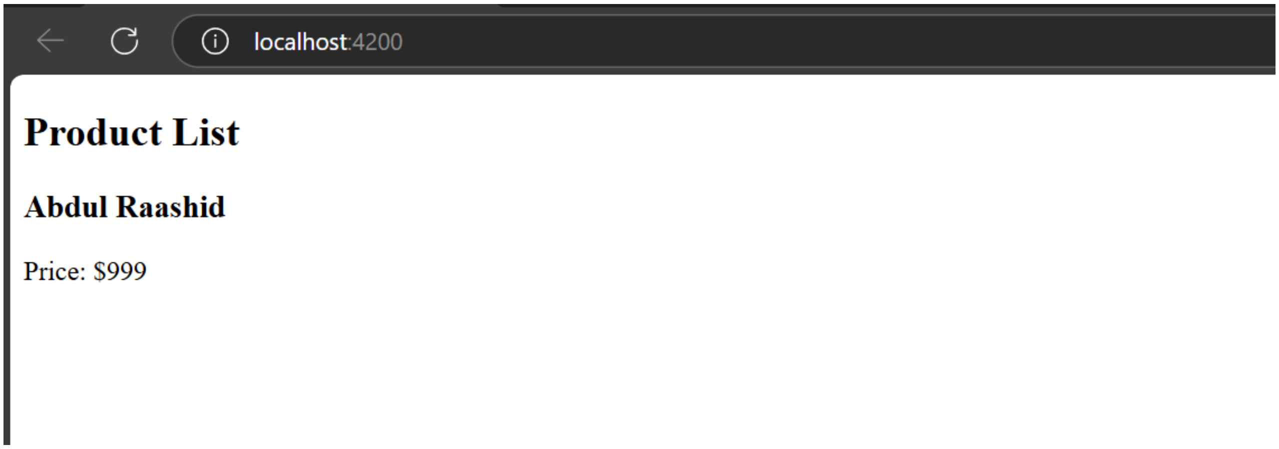


```
Keyboard 599.00 INR
Monitor 4999.00 INR
```

6.

```
<div class="product-card">
   <h3>{{ name }}</h3>
   <p>Price: ${{ price }}</p>
  </div>

import { Component, Input } from '@angular/core';
import { CommonModule } from '@angular/common';
import { FormsModule } from '@angular/forms';
@Component({
  selector: 'app-product-item',
  standalone: true,
  imports:[FormsModule,CommonModule],
  templateUrl: './product-item.component.html',
  styleUrls: ['./product-item.component.css']
})
export class ProductItemComponent {
  @Input() name:string="";
  @Input() price:number=0;

}

import { Component } from '@angular/core';

import { CommonModule } from '@angular/common'; // ✅ Needed for *ngFor
import { ProductItemComponent } from '../product-item/product-item.component';
@Component({
  selector: 'app-product-list',
  standalone: true,
  imports: [CommonModule, ProductItemComponent],
  templateUrl: './product-list.component.html',
  styleUrls: ['./product-list.component.css']
})
export class ProductListComponent {
  name:string="Abdul Raashid";
  price:number=999;
}
```

```
<h2>Product List</h2>

<app-product-item
  [name]="name"
  [price]="price">
</app-product-item>
```



Product List

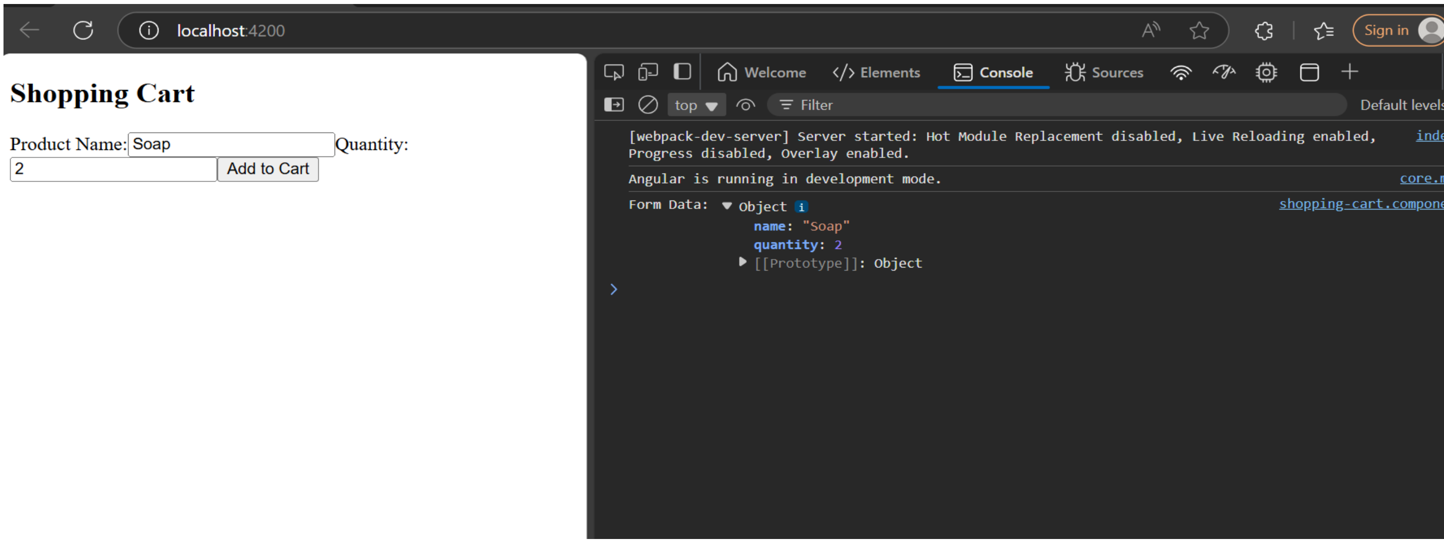
Abdul Raashid

Price: $999

7.

```
import { Component } from '@angular/core';
import { FormGroup, FormControl, Validators } from
'@angular/forms';

@Component({
  selector: 'app-shopping-cart',
  templateUrl: './shopping-cart.component.html',
  styleUrls: ['./shopping-cart.component.css']
})
```

```
export class ShoppingCartComponent {
  cartForm = new FormGroup({
    name: new FormControl('', Validators.required),
    quantity: new FormControl(1, [Validators.required,
Validators.min(1)])
  });

  submitForm() {
    console.log('Form Data:', this.cartForm.value);
  }
}
```



Shopping Cart

Product Name: Soap Quantity:
2 Add to Cart

```
[webpack-dev-server] Server started: Hot Module Replacement disabled, Live Reloading enabled,    inde
Progress disabled, Overlay enabled.
Angular is running in development mode.                                                        core.r
Form Data: ▼ Object i                                                             shopping-cart.compone
              name: "Soap"
              quantity: 2
            ▶ [[Prototype]]: Object
>
```

8.

```
import { Component } from '@angular/core';
import { ReactiveFormsModule,FormGroup,FormControl,
FormBuilder, Validators } from '@angular/forms';

@Component({
  selector: 'app-eight',
  standalone: false,
  templateUrl: './eight.component.html',
  styleUrl: './eight.component.scss'
})
export class EightComponent {
  shoppingForm!:FormGroup;

  constructor(private formBuilder:FormBuilder){
    this.shoppingForm= this.formBuilder.group({
      Name:['',Validators.required],
      Quantity:['',Validators.required]

    })
  }
  onSubmit(){
    if(this.shoppingForm.valid){
      console.log(this.shoppingForm.value)
    }
  }

}
```

```
<p>eight works!</p>
```

```
<form [formGroup]="shoppingForm"
(ngSubmit)="onSubmit()">
  <input placeholder="product name"
formControlName="Name">
  <input placeholder="product Quantity"
formControlName="Quantity">
  <button type="submit">Submit</button>
</form>
```

9.

```
import { ProductService } from './../../Services/product.service';
import { Component, OnInit } from '@angular/core';
import { Product } from '../../Services/product.service';

@Component({
  selector: 'app-nine',
  standalone: false,
  templateUrl: './nine.component.html',
  styleUrl: './nine.component.scss'
})
export class NineComponent implements OnInit {
  products:Product[]=[];
  loading=true;
  error='';

constructor(private productService:ProductService){}
```

```
  ngOnInit() {
    this.productService.getProducts().subscribe({
      next: (data) => {
        this.products = data;
        this.loading = false;
      },
      error: (err) => {
        this.error = 'Failed to load products';
        this.loading = false;
        console.error(err);
      },
    });
  }

}
```

```
<h2>Product List</h2>

<div *ngIf="loading">Loading products...</div>
<div *ngIf="error">{{ error }}</div>

<div *ngIf="!loading && !error">
  <div *ngFor="let product of products">
    <h3>{{ product.title }}</h3>
    <img [src]="product.image" alt="{{ product.title }}"
width="100" />
    <p>Price: ₹{{ product.price.toFixed(2) }}</p>
  </div>
</div>
```

10.

```
import { Component } from '@angular/core';

@Component({
  selector: 'app-ten',
  standalone: false,
  templateUrl: './ten.component.html',
  styleUrl: './ten.component.scss'
})
export class TenComponent {
 blogs = [
    'Post 1', 'Post 2', 'Post 3', 'Post 4', 'Post 5',
    'Post 6', 'Post 7', 'Post 8', 'Post 9', 'Post 10'
  ];

  pageSize = 5;
  currentPage = 0;

  get startIndex(): number {
    return this.currentPage * this.pageSize;
  }

  get endIndex(): number {
    return this.startIndex + this.pageSize;
  }
  nextPage() {
    if (this.endIndex < this.blogs.length) {
      this.currentPage++;
    }
  }

  prevPage() {
    if (this.currentPage > 0) {
      this.currentPage--;
    }
  }
}
```

```
<p>ten works!</p>
<h2>Blog Posts (Page {{ currentPage + 1 }})</h2>

<ul>
  <li *ngFor="let blog of blogs | slice:startIndex:endIndex">
    {{ blog }}
  </li>
</ul>

<button (click)="prevPage()" [disabled]="currentPage ===
0">Previous</button>
<button (click)="nextPage()" [disabled]="endIndex >=
blogs.length">Next</button>
```

11.

```
import { Component, OnInit } from '@angular/core';
import { ActivatedRoute } from '@angular/router';

interface Product {
  name: string;
  category: string;
}
@Component({
  selector: 'app-eleven',
  standalone: false,
  templateUrl: './eleven.component.html',
  styleUrl: './eleven.component.scss'
})
export class ElevenComponent implements OnInit {
    allProducts: Product[] = [
    { name: 'Laptop', category: 'Electronics' },
    { name: 'Book A', category: 'Books' },
    { name: 'Smartphone', category: 'Electronics' },
    { name: 'Book B', category: 'Books' },
    { name: 'Shirt', category: 'Clothing' }
  ];

  filteredProducts: Product[] = [];

  constructor(private route: ActivatedRoute) {}

  ngOnInit(): void {
    this.route.queryParamMap.subscribe(params => {
```

```
   const category = params.get('category');
   if (category) {
    this.filteredProducts = this.allProducts.filter(
     p => p.category.toLowerCase() === category.toLowerCase()
    );
   } else {
    this.filteredProducts = this.allProducts;
   }
  });
 }
}

import { Component, OnInit } from '@angular/core';
import { ActivatedRoute } from '@angular/router';

interface Product {
 name: string;
 category: string;
}
@Component({
 selector: 'app-eleven',
 standalone: false,
 templateUrl: './eleven.component.html',
 styleUrl: './eleven.component.scss'
})
export class ElevenComponent implements OnInit {
  allProducts: Product[] = [
  { name: 'Laptop', category: 'Electronics' },
    { name: 'Book A', category: 'Books' },
    { name: 'Smartphone', category: 'Electronics' },
    { name: 'Book B', category: 'Books' },
    { name: 'Shirt', category: 'Clothing' }
  ];

  filteredProducts: Product[] = [];

  constructor(private route: ActivatedRoute) {}

  ngOnInit(): void {
    this.route.queryParamMap.subscribe(params => {
      const category = params.get('category');
      if (category) {
        this.filteredProducts = this.allProducts.filter(
          p => p.category.toLowerCase() ===
category.toLowerCase()
        );
      } else {
        this.filteredProducts = this.allProducts;
      }
    });
  }
}
```