bmi.services.ts:

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

@Injectable({
   providedIn: 'root',
})
export class BmiService {
   calculateBMI(height: number, weight: number): number {
    if (height <= 0 || weight <= 0) {
      return 0;
    }
    const bmi = weight / (height * height);
    return Math.round(bmi * 10) / 10; // Round to one decimal place
}
</pre>
```

bmi-calculator.components.ts:

```
import { Component } from '@angular/core';
import { BmiService } from '../bmi.service';
@Component({
  selector: 'app-bmi-calculator',
  templateUrl: './bmi-calculator.component.html',
  styleUrls: ['./bmi-calculator.component.css'],
})
export class BmiCalculatorComponent {
  height: number = 0;
  weight: number = 0;
  bmi: number = 0;
  bmiCategory: string = '';
  constructor(private bmiService: BmiService) {}
  calculateBMI(): void {
    this.bmi = this.bmiService.calculateBMI(this.height, this.weight);
    this.bmiCategory = this.getBmiCategory(this.bmi);
  private getBmiCategory(bmi: number): string {
   if (bmi < 18.5) {
      return 'Underweight';
    } else if (bmi >= 18.5 && bmi < 25) {
      return 'Healthy Weight';
    } else if (bmi >= 25 && bmi < 30) {
      return 'Overweight';
    } else {
```

```
return 'Obese';
}
}
```

bmi-calculator.component.html:

```
<div class="bmi-calculator">
   <h2>BMI Calculator</h2>
   <div class="input-group">
     <label for="height">Height (m):</label>
     <input type="number" id="height" [(ngModel)]="height" />
   </div>
   <div class="input-group">
     <label for="weight">Weight (kg):</label>
     <input type="number" id="weight" [(ngModel)]="weight" />
   </div>
   <button (click)="calculateBMI()">Calculate BMI</button>
   <div class="result" *ngIf="bmi">
     Your BMI is: {{ bmi }}
     BMI Category: {{ bmiCategory }}
   </div>
 </div>
```

bmi-calculator.component.css:

```
.bmi-calculator {
   max-width: 300px;
   margin: 0 auto;
    padding: 20px;
   border: 1px solid #ddd;
   border-radius: 5px;
   box-shadow: 0 0 5px rgba(0, 0, 0, 0.1);
   background-color: #f9f9f9;
  .input-group {
   margin-bottom: 10px;
 label {
   display: block;
   font-weight: bold;
 input[type="number"] {
   width: 100%;
   padding: 8px;
```

```
border: 1px solid #ccc;
border-radius: 3px;
}

button {
    display: block;
    width: 100%;
    padding: 10px;
    background-color: #007bff;
    color: #fff;
    border: none;
    border-radius: 3px;
    cursor: pointer;
}

button:hover{
    background-color: darkblue;
}
```

app.component.html:

```
<div style="text-align: center">
   <app-bmi-calculator></div>
```

app.module.ts:

```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { FormsModule } from '@angular/forms';

import { AppComponent } from './app.component';
import { BmiCalculatorComponent } from './bmi-calculator/bmi-calculator.component';

@NgModule({
   declarations: [AppComponent, BmiCalculatorComponent],
   imports: [BrowserModule, FormsModule],
   providers: [],
   bootstrap: [AppComponent],
})
export class AppModule {}
```

OUTPUT:

BMI Calculator Height (m): 1.6 Weight (kg): 60 Calculate BMI Your BMI is: 23.4 BMI Category: Healthy Weight