

Ex. No: 4	Angular based App creation
09.08.2023	

Aim:

To Create an App using ANGULAR with Components, Binding, and Services usage.

Algorithm:

1. Setup angular using the ng serve command
2. Create all the required components.
3. Organize the app structure.
4. Implement the services that are needed.
5. Define component HTML templates with data binding to display dynamic content
6. Enable component communication using input/output properties and event binding.
7. Apply CSS styles to components, optimize for performance, and deploy the app.

Program:

Component code:

```
import { Component, OnInit } from '@angular/core';
import { CalculationService } from '../calculation.service';
@Component({
  selector: 'app-calculator',
  templateUrl: './calculator.component.html',
  styleUrls: ['./calculator.component.css']
})
export class CalculatorComponent implements OnInit {
  num1: number = 0;
  num2: number = 0;
  result: number = 0;
  constructor(private calculationService: CalculationService) { }
  ngOnInit(): void {
  }
  calculateSum(): void {
    this.result = this.calculationService.calculateSum(this.num1, this.num2);
  }
}
```

Service code:

```
import { Injectable } from '@angular/core';
@Injectable({
  providedIn: 'root'
})
export class CalculationService {
  constructor() { }
  calculateSum(num1: number, num2: number): number {
    return num1 + num2;
  }
}
```

app.component.ts:

```
import { Component } from '@angular/core';
@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent {
  title = 'sum-calculator';
}
```

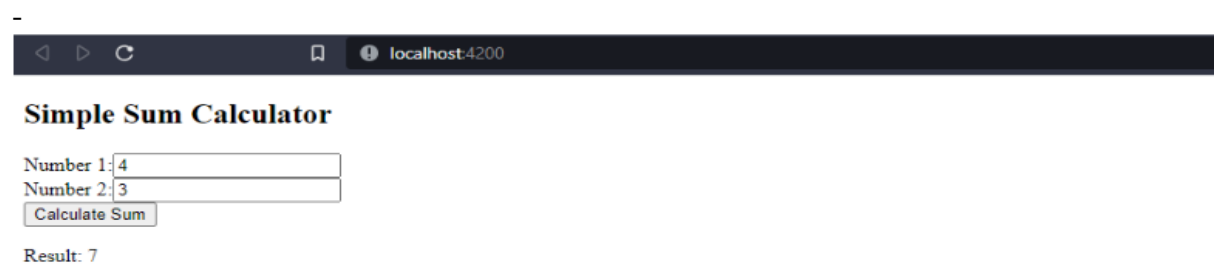
Component html code:

```
<div>
<h2>Simple Sum Calculator</h2>
<label for="num1">Number 1:</label>
<input type="number" id="num1" [(ngModel)]="num1">
<br>
<label for="num2">Number 2:</label>
<input type="number" id="num2" [(ngModel)]="num2">
<br>
<button (click)="calculateSum()">Calculate Sum</button>
<br>
<p>Result: {{ result }}</p>
</div>
```

Output:

Github Link:

<https://github.com/kavin-t28/CS3809-Web-Technologies-Lab>



Result:

Therefore, we've successfully created a simple react app.