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**SECTION: B** 

REG. NO: 201900325

**ASSIGNMENT 6** 

Create a calculator app using Angular which is capable of performing following operations:

- 1. Addition of two numbers
- 2. Subtraction of two numbers
- 3. Multiplication of two numbers
- 4. Division of two numbers
- 5. Factorial of a number
- 6. Checking if a given number is Prime or not

#### APP.COMPONENT.HTML

```
<div class="container">
     <div class="main">
         <div class="Header">
              <h1>Calculator App</h1>
         </div>
         <div class="input_container">
              <input type="number" name="n1" [(ngModel)]="n1">
              <input type="number" name="n2" [(ngModel)]="n2">
         </div>
         <div class="button_container">
              <button class="btn" (click)="add()">Addition</button>
<button class="btn" (click)="sub()">Subtraction</button>
              <button class="btn" (click)="mul()">Multiplication/button>
         </div>
         <div class="button_container">
              <button class="btn" (click)="divi()">Division</button>
<button class="btn" (click)="fac()">Factorial</button>
              <button class="btn" (click)="prime()">Prime Checker</button>
         </div>
         <div class="ans">
              <div>
                  Result:
              </div>
              <div>
                   {{!n5 ? n3 : n4}}
              </div>
         </div>
    </div>
</div>
<router-outlet></router-outlet>
```

### **APP.COMPONENT.CSS**

```
.container {
 width: 90%;
 margin: auto;
h1 {
 text-transform: capitalize;
 font-style: italic;
.main {
 display: flex;
  align-items: center;
 justify-content: center;
 flex-direction: column;
 height: 100vh;
 background-color: #b5e6f7;
.input container,
.button container {
 display: flex;
 justify-content: space-around;
 width: 90%;
 padding: 1rem;
.input_container input {
  border: none;
 border-bottom: 1px solid black;
 padding: 10px;
 height: 20px;
 width: 8rem;
.input_container input:focus {
 outline: 0;
```

```
.btn {
 border: 2px solid lightblue;
 background-color: rgba(97, 97, 247, 0.651);
 padding: 8px 30px;
 border-radius: 8px;
 font-size: 16px;
 cursor: pointer;
 min-width: 175px;
.btn:focus {
 outline: 0;
.btn:active {
 transform: scale(0.98);
.ans {
 display: flex;
 align-items: center;
 justify-content: center;
 font-size: 18px;
 text-transform: uppercase;
 font-style: italic;
 font-weight: 700;
 padding: 20px;
.ans div:nth-of-type(2) {
 min-width: 30px;
 margin-left: 10px;
```

#### APP.COMPONENT.TS

```
import { Component } from '@angular/core';
templateUrl: './app.component.html',
 styleUrls: ['./app.component.css']
})
export class AppComponent {
 title = 'calculator-app';
  public n1: number;
  public n2: number;
  public n3: string;
  public n4: string;
  public n5: number;
  AppComponent() {
    this.n1 = 0;
    this.n2 = 0;
    this.n3 = "";
   this.n4 = "";
    this.n5 = 0;
  add() {
   this.n5 = 0;
    if (this.n1 == NaN && this.n2 === NaN) {
     this.n3 = `0`;
     return;
    this.n3 = `${this.n1} + ${this.n2} = ${this.n1 + this.n2}`;
  sub() {
   this.n5 = 0;
    this.n3 = `${this.n1} - ${this.n2} = ${this.n1 - this.n2}`
  mul() {
   this.n5 = 0;
    this.n3 = `${this.n1} * ${this.n2} = ${this.n1 * this.n2}`
```

```
divi() {
  this.n5 = 0;
  this.n3 = `${this.n1} / ${this.n2} = ${this.n1 / this.n2}`
fac() {
 this.n5 = 0;
 let n = this.n1;
 while (n != 1) {
 this.n3 = `${this.n1}! = ${ans}`;
prime(){
 let flag = true;
  this.n5 = 1;
  if (this.n1 === 1) {
   this.n4 = `0`;
   return;
 for (let i = 2; i < this.n1; i++) {</pre>
      if (this.n1 % i == 0) {
          flag = false;
          break;
  if (flag === true) {
      this.n4 = `${this.n1} is a Prime Number`;
  } else {
   this.n4 = `${this.n1} is not a Prime Number`;
```

## **IMAGES**:

54	Calculator App	76
Addition	Subtraction	Multiplication
Division	Factorial	Prime Checker
	RESULT: 54 + 76 = 130	

	Calculator App	
54	Cancananor 147	76
Addition	Subtraction	Multiplication
Division	Factorial	Prime Checker
	RESULT: 54 * 76 = 4104	

Calculator App		
10		
Addition		
Subtraction		
Multiplication		
Division		
Factorial		
Prime Checker		
RESULT: 10! = 3628800		

Calculator App	
5	
Addition	
Subtraction	
Multiplication	
Division	
Factorial	
Prime Checker	
RESULT: 5 IS A PRIME NUMBER	