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

CODE:

App.component.ts

```
calculator > src > app > 🕲 app.component.ts > 😭 AppComponent > 😚 getAnswer > 😚 isPrime
        import { Component } from '@angular/core';
        @Component({
         selector: 'app-root',
templateUrl: './app.component.html',
styleUrls: ['./app.component.css']
        title = 'calculator';
subDisplayText = '';
mainDisplayText = '';
          operand1!: number;
          operand2!: number;
          calculationString = '';
          answered = false;
           operatorSet = false;
             resskey(key: string) {
   if (key === '/' || key === 'x' || key === '-' || key === '+'|| key === 'Factorial'|| key === 'Prime') {
     const lastKey = this.mainOisplayText[this.mainOisplayText.length - 1];
   if (lastKey === '/' || lastKey === 'x' || lastKey === '-' || lastKey === '+'|| key === 'Factorial'|| key === 'Prime') {
     this.operatorSet = true;
}
               }
if ((this.operatorSet) || (this.mainDisplayText === '')) {
                this.operand1 = parseFloat(this.mainDisplayText);
                this.operator = key;
                this.operatorSet = true;
              if (this.mainDisplayText.length === 10) {
             this.mainDisplayText = '';
             this.subDisplayText = ';
              this.operatorSet = false;
```

```
getAnswer() {
    this.calculationString = this.mainDisplayText;
    this.operand2 = parseFloat(this.mainDisplayText.split(this.operator)[1]);
    if (this.operand2 = this.mainDisplayText;
    this.subDisplayText = this.mainDisplayText;
    this.subDisplayText = this.calculationString;
    if (this.mainDisplayText = this.calculationString;
    if (this.mainDisplayText = this.mainDisplayText.subStr(0, 9);
    }
    else if (this.operator --- 'x') {
        this.subDisplayText = this.mainDisplayText.subStr(0, 9);
    }
    else if (this.operator --- 'x') {
        this.mainDisplayText = this.mainDisplayText;
        this.mainDisplayText = this.calculationString;
        if (this.operator --- 'x') {
        this.mainDisplayText = this.calculationString;
        if (this.mainDisplayText.length > 9) {
            this.mainDisplayText = 'ERROR';
            this.mainDisplayText = 'this.mainDisplayText;
            this.mainDisplayText = 'this.mainDisplayText;
            this.mainDisplayText = 'this.mainDisplayText;
            this.mainDisplayText = this.mainDisplayText;
            this.mainDisplayText = this.calculationString;
            else if (this.operator --- '-') {
            this.subDisplayText = this.calculationString;
            this.mainDisplayText = this.calculationString;
            this.mainDisplayText
```

```
this.subDisplayText = this.mainDisplayText;
this.mainDisplayText = (factorial).toString();
this.subDisplayText = this.calculationString;
if (this.mainDisplayText.length > 9) {
    this.mainDisplayText = 'ERROR';
    this.subDisplayText = this.mainDisplayText;
    this.subDisplayText = this.mainDisplayText;
    this.mainDisplayText = this.mainDisplayText;
    this.mainDisplayText = this.calculationString;
    if (this.mainDisplayText.length > 9) {
        this.mainDisplayText = 'ERROR';
        this.mainDisplayText = 'Range Exceeded';
    }
} else {
    this.subDisplayText = 'ERROR: Invalid Operation';
    }
} else {
    this.answered = true;
}

function isPrime(num: number) {
    for(var i = 2; i < num; i++)
    if(num % i == 0) return 'Not Prime';
    return 'Prime';
}

function calcFact( num: number )
    {
        var i;
        var fact = 1;
        for(i = 1; i <= num; i++)
        {
        fact = fact * i;
        }
        return fact;
}
</pre>
```

App.component.html

```
    ∃ app.component.css ×

calculator > src > app > ₹ app.component.css > ६ .base
       body {
        background-color: □#000000;
          box-shadow: 0px 0px 0px 10px □#666;
         border: 5px solid □black;
         border-radius: 10px;
      }
.base {
| background: □black;
        margin-top: 5vh;
margin-left: 65vh;
border: 3px solid □black;
width: 35%;
      .subdisplay {
       border-bottom: 1px solid ■#727886;
height: 15%;
font-size: 2rem;
         overflow: auto;
       .keypad {
        height: calc(50%);
        margin: 0;
height: 5%;
      background: ■whitesmoke;
color: □#425062;
padding: 5%;
```

SCREENSHOT:

