Name :- Harsh Harsani

Reg No.:- 201900351
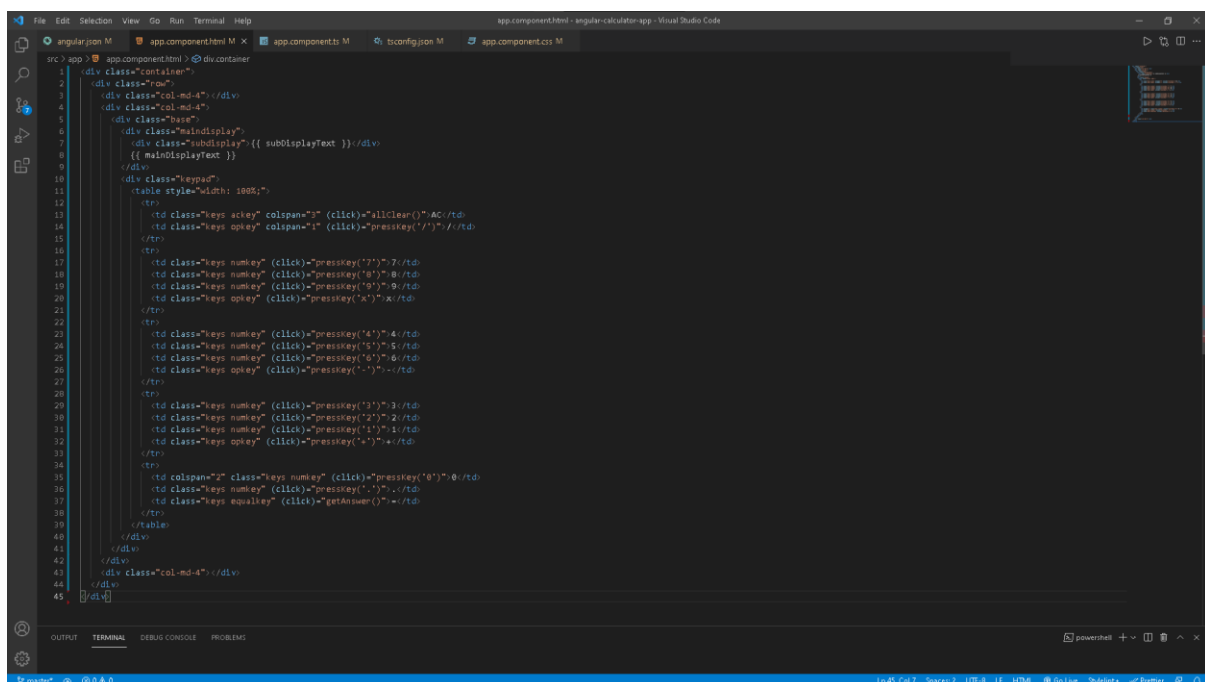
Create a calculator app using Angular

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
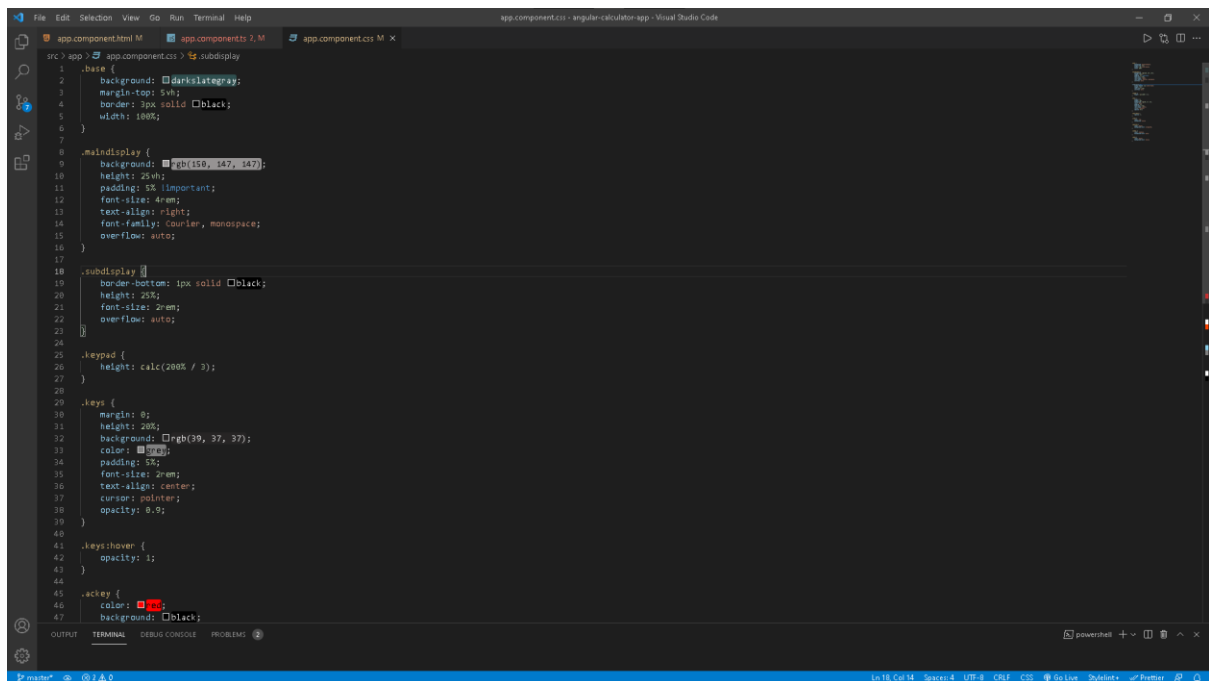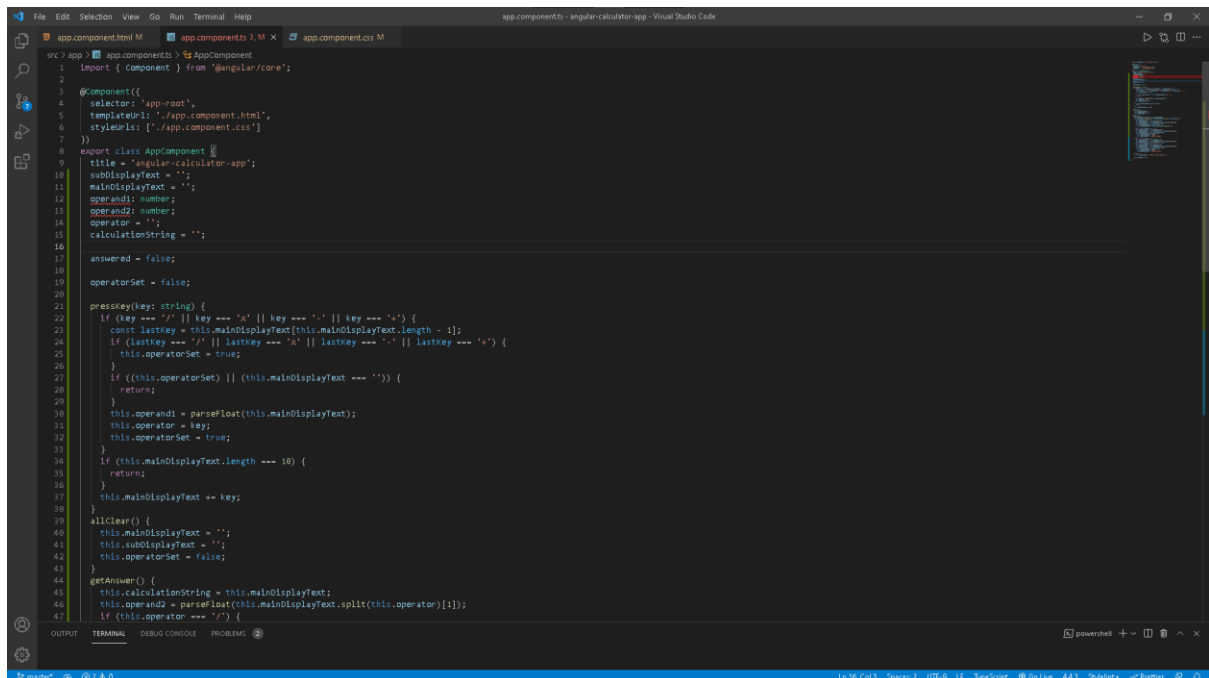6. Checking if a given number is Prime or not

Code:-

Html:-

CSS:-


```css
.base {
    background: darkslategray;
    margin-top: 5vh;
    border: 3px solid black;
    width: 100%;
}

.maindisplay {
    background: rgb(150, 147, 147);
    height: 25vh;
    padding: 5% !important;
    font-size: 4rem;
    text-align: right;
    font-family: Courier, monospace;
    overflow: auto;
}

.subdisplay {
    border-bottom: 1px solid black;
    height: 25%;
    font-size: 2rem;
    overflow: auto;
}

.keypad {
    height: calc(200% / 3);
}

.keys {
    margin: 0;
    height: 20%;
    background: rgb(39, 37, 37);
    color: grey;
    padding: 5%;
    font-size: 2rem;
    text-align: center;
    cursor: pointer;
    opacity: 0.9;
}

.keys:hover {
    opacity: 1;
}

.ackey {
    color: red;
    background: black;
```

TS:-


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

@Component({
    selector: 'app-root',
    templateUrl: './app.component.html',
    styleUrls: ['./app.component.css']
})
export class AppComponent {
    title = 'angular-calculator-app';
    subDisplayText = '';
    mainDisplayText = '';
    operand1: number;
    operand2: number;
    operator = '';
    calculationString = '';

    answered = false;

    operatorSet = false;

    pressKey(key: string) {
        if (key === '/' || key === 'x' || key === '-' || key === '+') {
            const lastKey = this.mainDisplayText[this.mainDisplayText.length - 1];
            if (lastKey === '/' || lastKey === 'x' || lastKey === '-' || lastKey === '+') {
                this.operatorSet = true;
            }
            if ((this.operatorSet) || (this.mainDisplayText === '')) {
                return;
            }
            this.operand1 = parseFloat(this.mainDisplayText);
            this.operator = key;
            this.operatorSet = true;
        }
        if (this.mainDisplayText.length === 10) {
            return;
        }
        this.mainDisplayText += key;
    }
    allClear() {
        this.mainDisplayText = '';
        this.subDisplayText = '';
        this.operatorSet = false;
    }
    getAnswer() {
        this.calculationString = this.mainDisplayText;
        this.operand2 = parseFloat(this.mainDisplayText.split(this.operator)[1]);
        if (this.operator === '/') {
```

Working calculator:-