SL LAB 6

calculator.component.css

Code:

```css
@import url('https://fonts.googleapis.com/css2?family=Roboto:wght@700&display=swap');

*{
  margin: 0;
  padding: 0;
  font-family:'Roboto', sans-serif ;
}

body{
  display: flex;
  justify-content: center;
  align-items: center;
}

.calculator{
  position: relative;
  display: grid;
}

.calculator .val{
  grid-column: span 4;
  height: 100px;
  width: 320px;
  background-color: #343A40;
  border: none;
  border-radius: 10px;
  text-align: right;
  font-size: 35px;
  padding: 10px;
  color: white;
  font-family: 'Roboto', sans-serif;
  outline: none;
}

.calculator span{
```

```css
    display: grid;
    width: 80px;
    height: 80px;
    place-items: center;
    background-color: rgb(233, 233, 233);
    color: black;
    font-size: 25px;
    margin: 2px;
    border-radius : 90px;

}

.calculator span.clear{
    grid-column: span 3;
    width: 250px;
    background-color: #97dad7;
}

.calculator span:hover{
    background: rgb(167, 167, 167);
    box-shadow: -5px 2px 2px rgba(0, 0, 0, 0.2);
}

.calculator span:active{
    background: rgb(157, 222, 224);
}

.calculator span.btm{
    grid-column: span 2;
    width: 160px;
    background-color: #97dad7;
    align-self: center;
}

.btm{
    display: grid;
    width: 80px;
    height: 80px;
    place-items: center;
    background-color: rgb(233, 233, 233);
    color: black;
    font-size: 25px;
```

```css
  margin: 2px;
  border-radius : 90px;
  grid-column: span 2;
  width: 160px;
  background-color: #97dad7;
  align-self: center;
  border: none;
}

.btm:active{
  background: rgb(157, 222, 224);
}

.btm:hover{
  background: rgb(167, 167, 167);
  box-shadow: -5px 2px 2px rgba(0, 0, 0, 0.2);
}

p{
  display: grid;
  place-items: center;
  background-color: rgb(233, 233, 233);
  color: black;
  font-size: 25px;
  margin: 2px;
  grid-column: span 4;
}
```

calculator.component.html

Code:

```html
<body>
  <div class="wrapper">
    <form class="calculator" name="calc">
      <input type="text" class="val" name="txt" readonly="" />
      <span class="clear" onclick="document.calc.txt.value =''">AC</span>
      <span class="num" onclick="document.calc.txt.value += '/'">/</span>
      <span class="num" onclick="document.calc.txt.value += '7'">7</span>
      <span class="num" onclick="document.calc.txt.value += '8'">8</span>
      <span class="num" onclick="document.calc.txt.value += '9'">9</span>
      <span class="num" onclick="document.calc.txt.value += '*'">x</span>
      <span class="num" onclick="document.calc.txt.value += '4'">4</span>
      <span class="num" onclick="document.calc.txt.value += '5'">5</span>
      <span class="num" onclick="document.calc.txt.value += '6'">6</span>
      <span class="num" onclick="document.calc.txt.value += '-'">-</span>
      <span class="num" onclick="document.calc.txt.value += '1'">1</span>
      <span class="num" onclick="document.calc.txt.value += '2'">2</span>
      <span class="num" onclick="document.calc.txt.value += '3'">3</span>
      <span class="num" onclick="document.calc.txt.value += '+'">+</span>
      <span class="num" onclick="document.calc.txt.value += '.'">.</span>
      <span class="num" onclick="document.calc.txt.value += '0'">0</span>
      <span class="num" onclick="document.calc.txt.value += '00'">00</span>
```

```html
    <span
      class="equal"
      onclick="document.calc.txt.value = eval(calc.
txt.value)"
      >=</span>
    <span class="btm" onclick="document.calc.txt.va
lue = eval(calc.txt.value)"
      >Factorial</span
    >
    <button class="btm" (Click)="isPrime()">Prime</
button><br>
    <p>{{prime}} is {{result}}</p>
  </form>
 </div>
</body>
```

calculator.component.ts

Code:

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

@Component({
  selector: 'app-calculator',
  templateUrl: './calculator.component.html',
  styleUrls: ['./calculator.component.css'],
})
export class CalculatorComponent {
  result = ' not a prime number';
  prime = 0;
  count = 0;
  i = 1;
  title = 'Calculator';
  isPrime() {
    for(let i=1;i<=this.prime;i++){
      if(this.prime%i == 0){
        this.count++;
      }
    }

    if (this.count == 2){
      this.result=" is a prime number";
    }
    else{
      this.result=" is not a prime number";
    }
  }}
```

app.component.css

Code:

```css
@import url('https://fonts.googleapis.com/css2?family
=Roboto:wght@700&display=swap');
h1{
    font-family: 'Roboto', sans-serif;
}
```

app.component.html

Code:

```html
<h1>CALCULATOR</h1>
<app-calculator></app-calculator>
```

app.component.ts

Code:

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

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

app.module.ts

Code:

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

import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';
import { CalculatorComponent } from './calculator/calculator.component';

@NgModule({
  declarations: [
    AppComponent,
    CalculatorComponent
  ],
  imports: [
    BrowserModule,
    AppRoutingModule
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```
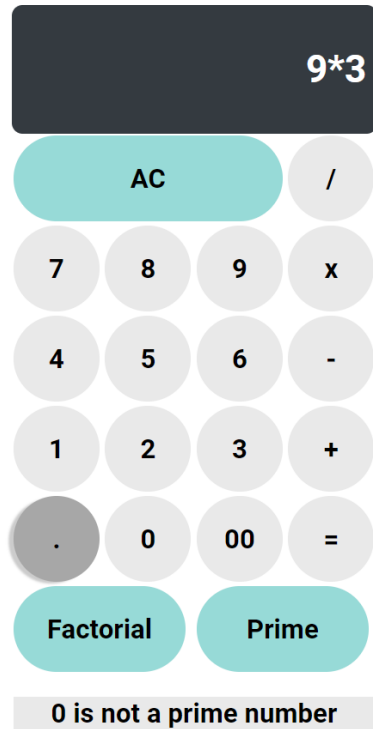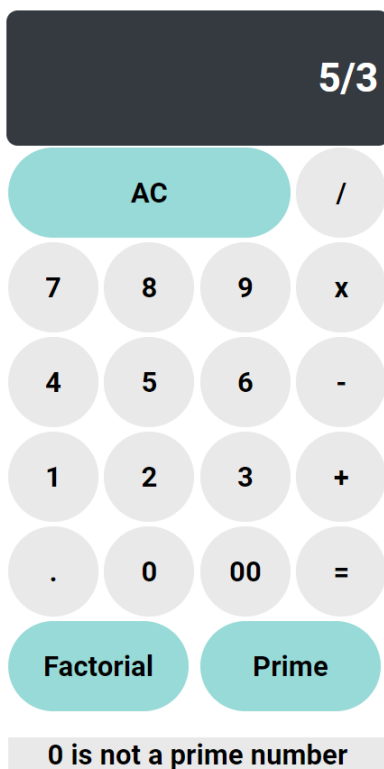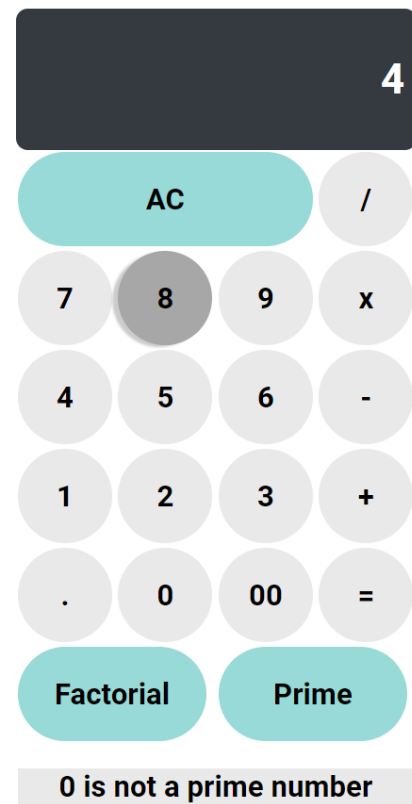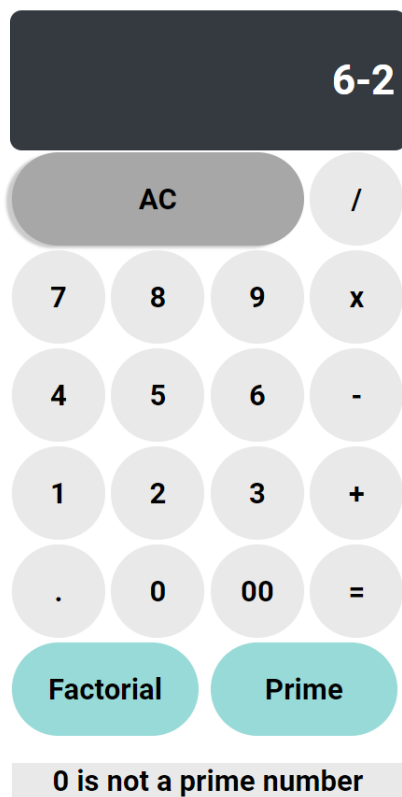
Functionality-

1) Multiplication

9*3	→	**27**

AC / 7 8 9 x 4 5 6 - 1 2 3 + . 0 00 = Factorial Prime

0 is not a prime number

2)Division

5/3	→	**1.6666666666666666**

AC / 7 8 9 x 4 5 6 - 1 2 3 + . 0 00 = Factorial Prime

0 is not a prime number

3)Subtraction

6-2	**4**
AC /	AC /
7 8 9 x	7 8 9 x
4 5 6 -	4 5 6 -
1 2 3 +	1 2 3 +
. 0 00 =	. 0 00 =
Factorial Prime	Factorial Prime
0 is not a prime number	0 is not a prime number

4)Addition

5)Prime

0 is not a prime number

7 is a prime number
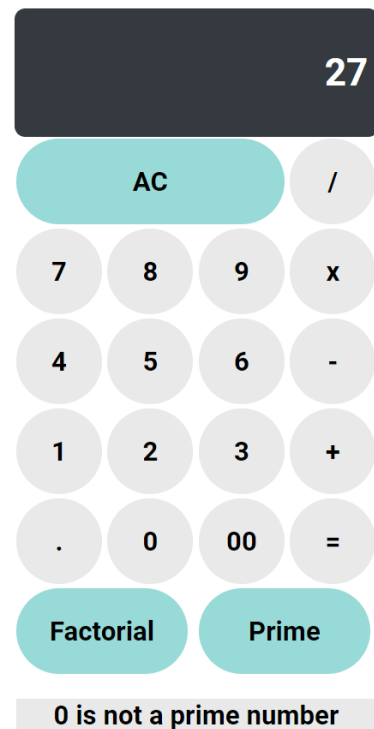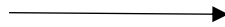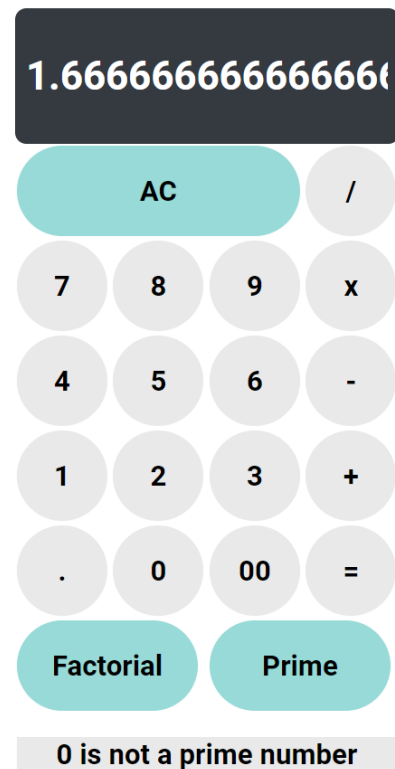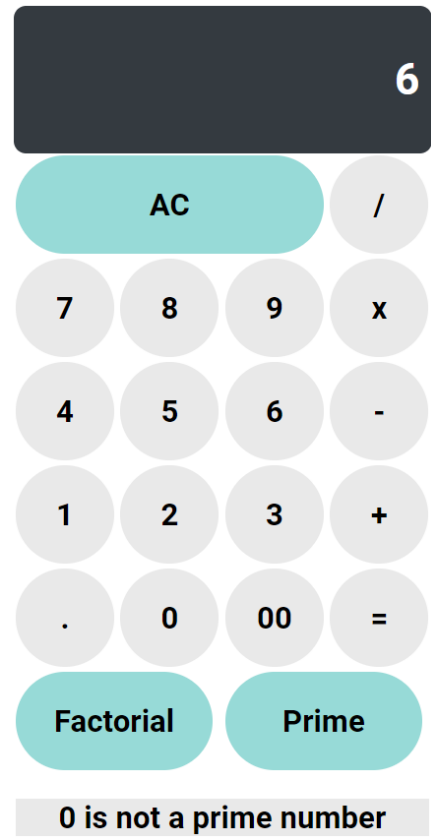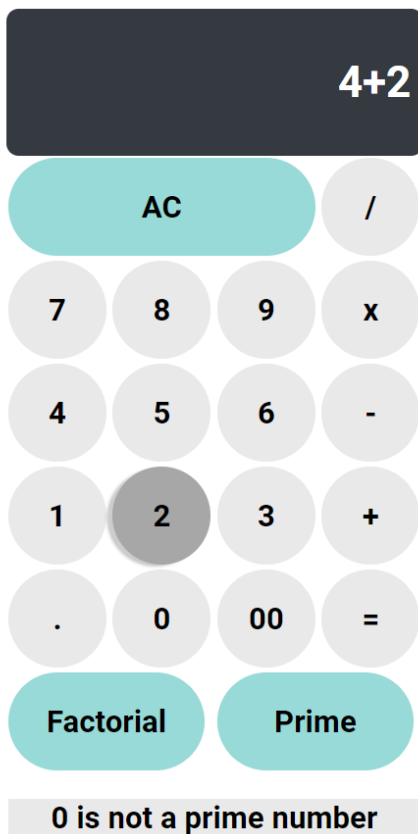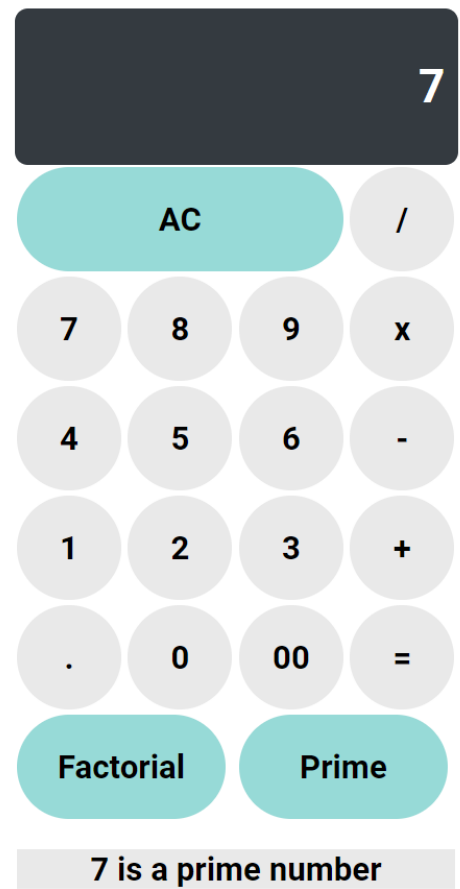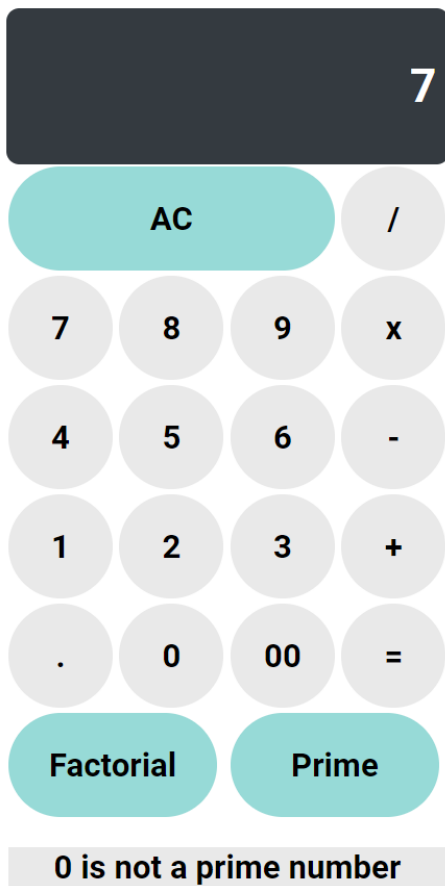
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