

SCRIPTING LAB ASSIGNMENT

CALCULATOR APP USING ANGULAR

Screenshot:



CODE OF COMPONENTS:

app.html:

```
<div class="calculator">
  <h1>ANGULARJS Calculator</h1>

  <div>
    <br>
    <input class="result" type="text" readonly value="{{ result }}"><br><br><br><br>
  </div>

  <div>
    <button class="responsive long" *ngFor="let longButton of longButtons" (click)="addToExpression(longButton)">
      {{ longButton }}
    </button>
    <button class="responsive " *ngFor="let button of buttons" (click)="addToExpression(button)">
      {{ button }}
    </button>
    <button class="responsive long" *ngFor="let longButton1 of longButtons1" (click)="addToExpression(longButton1)">
      {{ longButton1 }}
    </button>
  </div>
</div>
```

component.ts:

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

@Component({
  selector: 'calci',
  templateUrl: './calci.component.html',
  styleUrls: ['./calci.component.css']
})

export class CalciComponent {

  result: string = '';
  longButtons: string[] = ['AC', 'CE'];
  buttons: string[] = ['7','8', '9','/', '4','5','6','*', '1','2','3','-','.', '0','=','+'];
  longButtons1: string[] = ['Prime', 'Factorial'];

  private prevValue: string = '';
  private curValue: string = '';
```

```

addToExpression(value: string) {

    if (this.result != "") {
        this.prevValue = this.curValue;
        this.curValue = value;
    }

    if (value == 'AC') {
        this.result = '';
    } else if (value == 'CE'){
        this.result = this.prevValue != "" ? this.result.slice(0, -1) : this.result;
    } else if (value == '=') {
        this.result = eval(this.result);
    }else if (value == 'Prime') {

        var c=0;
        var n=parseInt(this.result);
        for(let i=1; i<=n/2;i++ )
        {
            c+=1;
        }
        if(c==1)
        {
            this.result='Prime';
        }
        else{
            this.result='Composite';
        }
    }else if(value=='Factorial'){
        var f=1;
        var n=parseInt(this.result);
        for(let i=1;i<=n;i++)
        {
            f=f*i;
        }
        this.result=f.toString();
    }
    else {
        this.result += value;
    }
}
}

```

component.css:

```
@import url(https://fonts.googleapis.com/css?family=Pacifico|Open+Sans|Montserrat);

h1{
margin-top: 0px;
font-size: 2em;
font-weight: bold;
font: italic small-caps bold 16px/2 cursive;
color: whitesmoke
}

.calculator{
height:40em; background-size:cover; width:auto;
background-image:url('src\app\calci\Orange Coral.jpg');
background-position:50% 50%;
/* background-color:#212529 ; */
position: relative;
margin: 7% auto auto auto;
width: 400px;
height: 650px;
text-align: center;
border-color: rgb(99, 94, 97);
border-radius: 20px;
box-shadow: inset 2px 0px 10px -5px rgb(85, 80, 83),
inset -5px 0px 15px -5px rgb(85, 80, 83),
inset 10px 0px 10px -12px rgb(89, 80, 83),
inset -2px 0px 4px 2px rgb(85, 80, 83),
inset -2px 0px 10px 0px rgb(89, 80, 83);
}

.result{
border-radius: 8px;
}

button{
border-radius: 8px;
width: 80px;
height: 65px;
font-size: 20px;
border: 2px solid;
border-color: rgb(87, 85, 85);
margin: 2px 2px 8px 2px;
transition-duration: 0.4s;
box-shadow: inset 5px 15px -5px rgb(109, 103, 106),
inset -3px 15px -5px rgb(109, 103, 106),
inset 0px -5px 0px -3px rgb(109, 103, 106),
inset 0 0 2px 2px rgb(109, 103, 106),
inset 0 5px 15px rgb( 109, 103, 106);
```

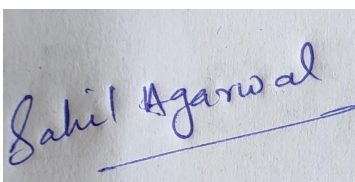
```
}

.long{
  width: 170px;
}

.responsive:hover {
  background-color: #ff5e62;
  color: rgb(247, 240, 240);
  box-shadow: inset 5px 0 15px -5px rgb(199, 192, 182),
              inset -3px 0 15px -5px rgb(199, 192, 182),
              inset 0px -5px 0px -3px rgb(199, 192, 182),
              inset 0 0 2px 2px rgb(199, 192, 182),
              inset 0 5px 15px 0 rgb(199, 192, 182),
}

input{
  width: 350px;
  height: 60px;
  text-align: right;
  font-size: 1.7em;
}
```

Name: Sahil Agarwal
Reg No. 201900242
Digital Signature:

A handwritten signature in blue ink that reads "Sahil Agarwal". The signature is written in a cursive style and is underlined with a single horizontal stroke.