Calculator

Component.html.code:

```
(!DOCTYPE html>
   <title>Calculator</title>
   <meta charset="UTF-8">
   <div id="bg">
     <h2>Simple Calculator</h2>
     <h3>First Number:{{num1}}</h3>
     <h3>Second Number:{{num2}}</h3>
     <div id="bu">
       <button (click)="add()" id="a">Addition of two numbers</button>
       <button (click)="sub()" id="b">Subtraction of two numbers/button>
       <button (click)="mul()" id="c">Multiplication of two numbers</button>
       <button (click)="divi()" id="d">Division of two numbers/button>
       <button (click)="modu()" id="e">Modulus</button>
       <button (click)="facto()" id="f">Factorial of a number</button>
       <button (click)="primenum()" id="g">Checks Prime or Comosite number</button>
     <div id="dis">
       <h4 *ngIf="check==0">Sum is {{sum}}</h4>
       <h4 *ngIf="check==1">Difference is {{dif}}</h4>
       <h4 *ngIf="check==2">Product is {{mult}}</h4>
       <h4 *ngIf="check==3">Quotient is {{quo}}</h4>
       <h4 *ngIf="check==4">Remainder is {{modulo}}</h4>
       <h4 *ngIf="check==5">Factorial of \{\{num1\}\}\ is \{\{fact1\}\}</h4>
       <h4 *ngIf="check==5">Factorial of {{num2}} is {{fact2}}</h4>
       <h4 *ngIf="flag1==0 && check==6">{{num1}} is Prime number</h4>
       <h4 *ngIf="flag1!=0 && check==6">{{num1}} is Composite number</h4>
       <h4 *ngIf="flag2==0 && check==6">{{num2}} is Prime number</h4>
       <h4 *ngIf="flag2!=0 && check==6">{{num2}} is Composite number</h4>
   </div>
 </body>
```

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Component.css Code:

```
body
    font-size: 30px;
    font-family: 'Times New Roman';
#bg
    background-image: url("Images/background.jpg");
h2
    color: royalblue;
    font-size: 60px;
    font-family: 'Times New Roman';
    text-align: center;
h3
    color:rgb(53, 23, 245);
    font-size: 45px;
    text-align:center;
#bu
    border: 1px solid black;
    border-width: 1px;
    border-radius: 2px;
button
    background-color:teal;
    border:1px solid black;
    color:floralwhite;
    border-width: 1px;
    margin: 15px;
    padding: 20px;
    text-align: center;
    font-family: 'Times New Roman';
    font-size: 30px;
    display:block;
button:hover
    background-color:aqua;
    color:rgb(236, 130, 30);
```

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```
#a
    padding: 20px 80px;
#b
    padding: 20px 65px;
#c
    padding: 20px 48px;
#d
 padding: 20px 82px;
#e
  padding: 20px 177px;
  padding: 20px 102px;
    color:rgb(184, 2, 2);
    font-size: 50px;
    font-family: 'Times New Roman';
    text-align: center;
    position: relative;
    top: -500px;
    left: 250px;
```

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Components.ts Code:

```
import { Component } from '@angular/core';
@Component({
 selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
export class AppComponent {
  num1=13;
 num2=10;
 sum={};
  dif={};
  mult={};
  quo={};
  modulo={};
  fact1=1;
  fact2=1;
  flag1=0;
  flag2=0;
  check={};
  add()
    this.check=0;
    this.sum=this.num1+this.num2;
  sub()
    this.check=1;
    if(this.num1>this.num2)
     this.dif=this.num1-this.num2;
      this.dif=this.num2-this.num1;
  mu1()
    this.check=2;
    this.mult=this.num1*this.num2;
  divi()
```

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```
this.check=3;
  this.quo=this.num1/this.num2;
modu()
  this.check=4;
  this.modulo=this.num1%this.num2;
facto()
  this.check=5;
  for(let i=0;i<=this.num1;i++)</pre>
      if(i==0)
        this.fact1*=1;
      else if(i==1)
        this.fact1*=1;
        this.fact1*=i;
  for(let i=0;i<=this.num2;i++)</pre>
      if(i==0)
        this.fact2*=1;
      else if(i==1)
        this.fact2*=1;
        this.fact2*=i;
primenum()
  this.check=6;
  for(let i=2;i<this.num1;i++)</pre>
    if(this.num1%i==0)
```

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```
this.flag1=1;
    break;
}

for(let i=2;i<this.num2;i++)
{
    if(this.num2%i==0)
    {
      this.flag2=1;
      break;
    }
}
</pre>
```

Component.module.ts

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

import { AppComponent } from './app.component';

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

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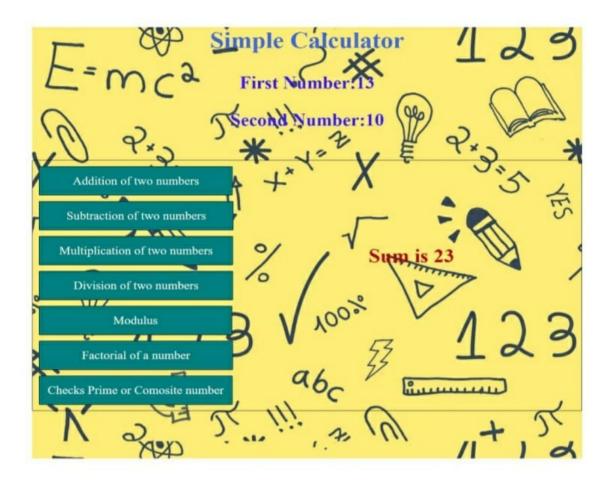
Component.spec.ts

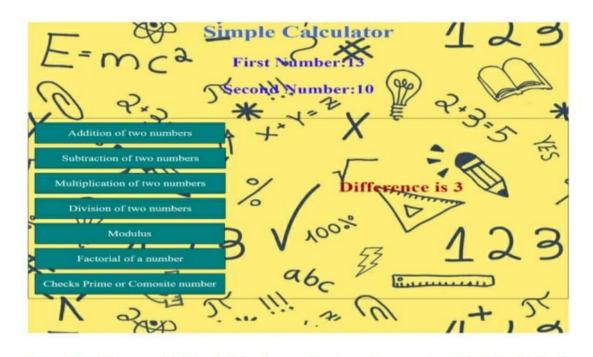
```
import { TestBed } from '@angular/core/testing';
import { AppComponent } from './app.component';
describe('AppComponent', () => {
  beforeEach(async () => {
    await TestBed.configureTestingModule({
      declarations: [
       AppComponent
    }).compileComponents();
  });
  it('should create the app', () => {
    const fixture = TestBed.createComponent(AppComponent);
    const app = fixture.componentInstance;
    expect(app).toBeTruthy();
  });
  it(`should have as title 'calculator'`, () => {
    const fixture = TestBed.createComponent(AppComponent);
    const app = fixture.componentInstance;
    expect(app.title).toEqual('calculator');
  });
  it('should render title', () => {
    const fixture = TestBed.createComponent(AppComponent);
    fixture.detectChanges();
    const compiled = fixture.nativeElement as HTMLElement;
    expect(compiled.querySelector('.content span')?.textContent).toContain('calculator app
 is running!');
});
```

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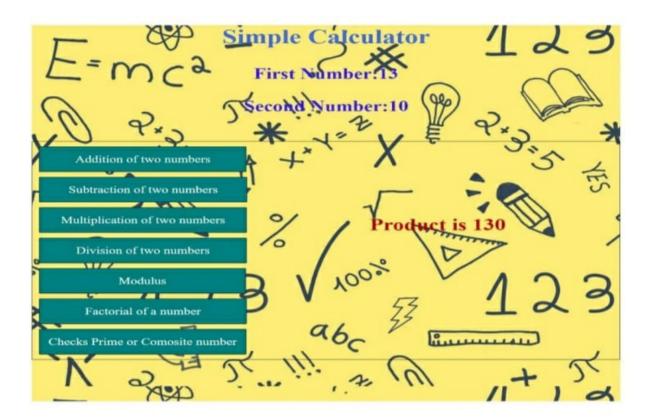
App:

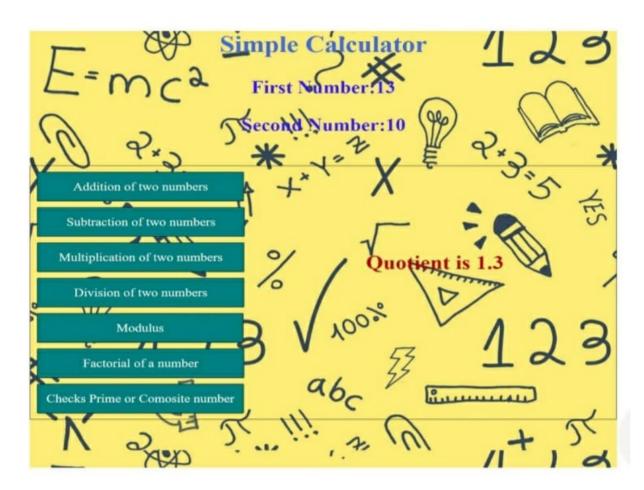




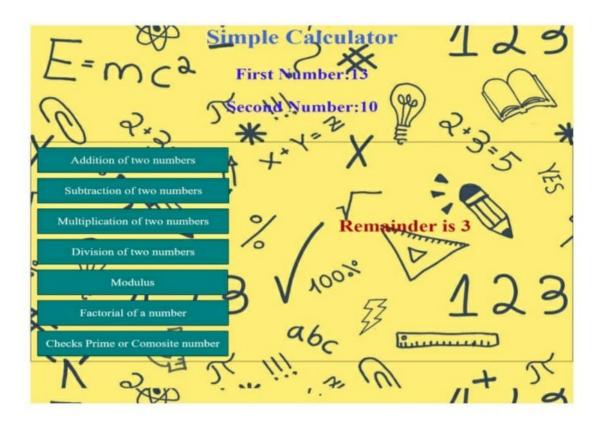
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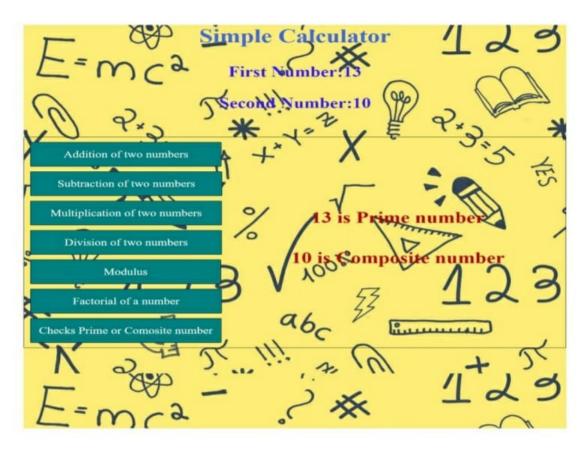
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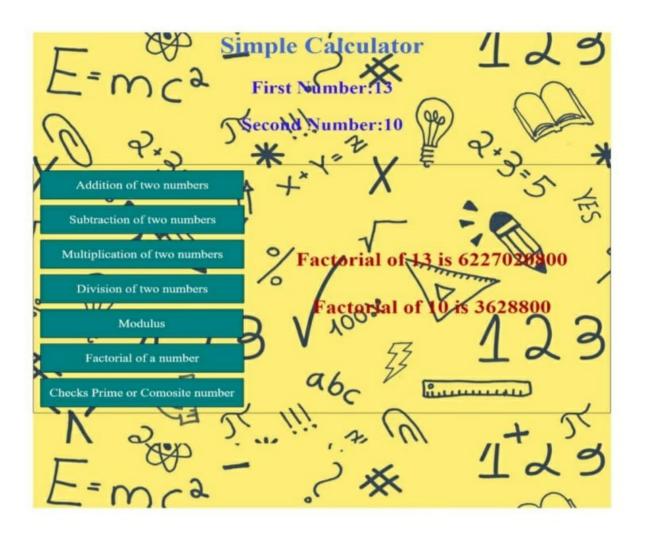


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