# Code of all the components

### app.component.html

```
<div class="form">
   <h2><span class="multicolortext">Simple calculator</span></h2>
   <div class="button">
      <button (click)="addnum()">Add</button>
      <button (click)="subnum()">Subtract</button><br>
      <button (click)="multinum()">Multiply</button>
      <button (click)="divnum()">Divide</button><br>
      <button (click)="factnum1()">Factorial of num 1
      <button (click)="factnum2()">Factorial of num 2</button><br>
      <button (click)="primenum1()">Prime checker for num 1/button>
      <button (click)="primenum2()">Prime checker for num 2</button>
   </div>
   First number is : {{a}}
   Second number is : {{b}}
   Note :- <br>(i) Result shown below after reloding the page is incorrect. So press the button for correct answer.
br>(ii)Don't press Factorial button twice.
   The sum of 2 numbers --- {{c1}} <br> The difference of 2 numbers --- {{c2}} <br> The product of 2 numbers ---
 \{\{c3\}\}\ <br/> The quotient of 2 numbers --- \{\{c4\}\}\
   Factorial of {{a}} --- {{fac1}} <br> Factorial of {{b}} --- {{fac2}}
   {{a}} is a prime number.
   {{b}} is a prime number.
   <ng-template #not prime1>{{a}} is not a prime number</ng-template>
   <ng-template #not prime2>{{b}} is not a prime number</ng-template>
</div>
```

#### app.component.css

```
.form
{
    padding: 10px 100px 10px;
```

```
background-color: black;
   overflow: auto;
.multicolortext
    padding-left: 450px;
    padding-right: 400px;
    font-size: 50px;
   background-image: linear-
gradient(to left, rgb(247, 90, 247), rgb(86, 3, 146), rgb(0, 150, 0), rgb(23, 23, 255), rgb(255, 255, 35), rgb(255, 167, 4), rgb(255,
5, 5));
    -webkit-background-clip: text;
    -moz-background-clip: text;
   background-clip: text;
   color: transparent;
.num1
    color: chartreuse;
   font-size: 20px;
.num2
   color: red;
   font-size: 20px;
.num3
    color: chartreuse;
   font-size: 20px;
button
   width: 150px;
   height: 90px;
    padding: 5px;
```

```
margin: 10px;
  transition-duration: 0.5s;
  font-size: 20px;
  font-weight: bold;
}
button:hover
{
    background-color: #ffee00;
    color: #000000;
}
.button
{
    border: 5px solid gold;
    padding: 5px;
    width: 340px;
    height: auto;
    float: right;
}
```

## app.component.ts

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

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

export class AppComponent {
    title = 'My App Component';
    a = 19;
    b = 12;
    c1 = {};
    c2 = {};
```

```
c3 = \{\};
c4 = {};
fac1 = 1;
fac2 = 1;
count1 = 0;
count2 = 0;
addnum()
 this.c1 = this.a + this.b;
subnum()
  this.c2 = this.a - this.b;
multinum()
 this.c3 = this.a * this.b;
divnum()
  this.c4 = this.a / this.b
factnum1()
 for(let i = 1; i <= this.a; i++)
    this.fac1 = this.fac1 * i;
factnum2()
 for(let i = 1; i <= this.b; i++)
    this.fac2 = this.fac2 * i;
```

```
primenum1()
 for(let i = 2; i<= (this.a)/2; i++)
   if (this.a % i == 0)
      this.count1 = 1;
     break;
primenum2()
 for(let i = 2; i<= (this.b)/2; i++)
   if (this.b % i == 0)
     this.count2 = 1;
     break;
```

# app-routing.module.ts

```
import { NgModule } from '@angular/core';
import { RouterModule, Routes } from '@angular/router';
```

```
const routes: Routes = [];

@NgModule({
   imports: [RouterModule.forRoot(routes)],
   exports: [RouterModule]
})
export class AppRoutingModule { }
```

#### app.component.spec.ts

```
import { TestBed } from '@angular/core/testing';
import { RouterTestingModule } from '@angular/router/testing';
import { AppComponent } from './app.component';
describe('AppComponent', () => {
  beforeEach(async () => {
    await TestBed.configureTestingModule({
      imports: [
        RouterTestingModule
      ],
      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 'my-first-app'`, () => {
    const fixture = TestBed.createComponent(AppComponent);
    const app = fixture.componentInstance;
```

```
expect(app.title).toEqual('my-first-app');
});

it('should render title', () => {
   const fixture = TestBed.createComponent(AppComponent);
   fixture.detectChanges();
   const compiled = fixture.nativeElement as HTMLElement;
   expect(compiled.querySelector('.content span')?.textContent).toContain('my-first-app app is running!');
});
});
```

## app.module.ts

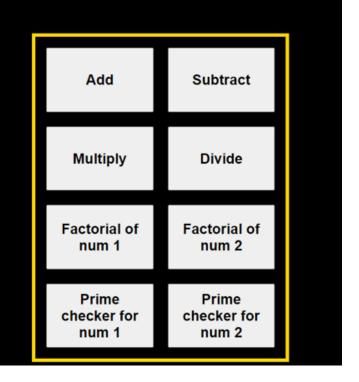
```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';

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

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

# Screenshot of app

# Simple calculator



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Section B