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## **Code of all your 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>
  <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/>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 100px;
  background-color:#2A0944;
  overflow: auto;
}
.multicolortext
  padding-left: 450px;
  padding-right: 400px;
  font-size: 50px;
  background-color: #F0D9FF;
  -webkit-background-clip: text;
  -moz-background-clip: text;
  background-clip: text;
  color: transparent;
}
.num1
  color:#50CB93;
  font-size: 20px;
}
.num2
  color:#BEAEE2;
  font-size: 20px;
.num3
  color:#50CB93;
  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 = 69;
 b = 42;
 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
   1,
   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).toContai
n('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
 1,
 providers: [],
 bootstrap: [AppComponent]
})
export class AppModule { }
                     Screensnip of your app
```

