

## SCRIPTING LAB ASSIGNMENT

```
<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>

  <p class="num1">First number is : {{a}}</p>
  <p class="num1">Second number is : {{b}}</p>

  <p class="num2">Note :- <br>(i) Result shown below after reloading the page is incorrect. So press the button for correct answer.<br>(ii)Don't press Factorial button twice.</p>

  <p class="num3">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}}</p>
  <p class="num3">Factorial of {{a}} --- {{fac1}} <br> Factorial of {{b}} --- {{fac2}}</p>
  <p *ngIf="count1 == 0 ;else not_prime1" class="num3">{{a}} is a prime number.</p>
  <p *ngIf="count2 == 0 ;else not_prime2" class="num3">{{b}} is a prime number.</p>
  <ng-template #not_prime1><p class="num3">{{a}} is not a prime number</p></ng-template>
  <ng-template #not_prime2><p class="num3">{{b}} is not a prime number</p></ng-template>
</div>
```

.form

```
{
  padding: 10px 100px 10px 100px;
  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;
}
```

```
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;  
    }  
  }  
}  
}  
}
```

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

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

```
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!');
});
});
```

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

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

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

First number is : 19

Second number is : 12

Note :-

(i) Result shown below after reloading the page is incorrect. So press the button for correct answer.

(ii) Don't press Factorial button twice.

The sum of 2 numbers --- 31

The difference of 2 numbers --- 7

The product of 2 numbers --- 228

The quotient of 2 numbers --- 1.5833333333333333

Factorial of 19 --- 121645100408832000

Factorial of 12 --- 479001600

19 is a prime number.

12 is not a prime number

Add	Subtract
Multiply	Divide
Factorial of num 1	Factorial of num 2
Prime checker for num 1	Prime checker for num 2

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