Ganpat University
॥ विद्यया समाजोत्कर्षः ॥
Institute of Computer Technology

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Sub: FET(Front End Technologies)

Branch: CBA

Batch:41

----------PRACTICAL 11----------

- **Objective**: To understand and work on the framework of Angular.
- **Exercise:**

Develop an arithmetic calculator in Angular using components and data-binding.

- ✓ **app.component.html :**

```
<html>
<head>
  <link rel="stylesheet" href="app.component.css">
  <link rel="stylesheet"
    href="https://fonts.googleapis.com/css2?family=Material+Symbols+Outlined:opsz,wght
,FILL,GRAD@20..48,100..700,0..1,-50..200" />
  <link rel="stylesheet"
    href="https://fonts.googleapis.com/css2?family=Material+Symbols+Outlined:opsz,wght
,FILL,GRAD@48,400,0,0" />
</head>
<body>
  <style>
    body {
      background-color: black;
    }
  </style>
  <div class="container">
    <div class="row">
      <div class="col-md-12 text-center">
        <h1 class="animate-charcter">CALCULATOR</h1>
      </div>
    </div>
  </div>
  <div class="container">
    <p>
      <span class="input">
        <input type="number" [(ngModel)]="num1" value="white" placeholder="Enter Your
Number">
```

```
        <input type="number" [(ngModel)]="num2" value="white" placeholder="Enter Your
Number">
        <span></span>
      </span>
    </p>
    <p></p>
    <button class="glow-on-hower" type="button" (click)="add()"><a class="button"
href="#" style="--color:#1e9bff;">
        Add
        <span></span>
        <span></span>
        <span></span>
        <span></span>
      </a></button>
    <p></p>
    <button class="glow-on-hower" type="button" (click)="sub()"><a class="button"
href="#" style="--color: #ff1867;">
        Sub
        <span></span>
        <span></span>
        <span></span>
        <span></span>
      </a></button>
    <p></p>
    <button class="glow-on-hower" type="button" (click)="mul()"><a class="button"
href="#" style="--color: #6eff3e;">
        Mul
        <span></span>
        <span></span>
        <span></span>
        <span></span>
      </a></button>
    <p></p>
    <button class="glow-on-hower" type="button" (click)="div()"><a class="button"
href="#" style="--color: gold;">
        Div
        <span></span>
        <span></span>
        <span></span>
        <span></span></a></button>
  </div>

  <div class="waviy">
    <span style="--i:1">
      <h2>R</h2>
    </span>
    <span style="--i:2">
      <h2>E</h2>
    </span>
    <span style="--i:3">
      <h2>S</h2>
    </span>
    <span style="--i:4">
      <h2>U</h2>
    </span>
    <span style="--i:5">
      <h2>L</h2>
    </span>
```

```
    <span style="--i:6">
      <h2>T</h2>
    </span>
    <span style="--i:7">
      <p>⇨</p>
    </span>
    <span style="--i:8">
      <h2>{{result}}</h2>
    </span>
    <h1>-------------------------------------------</h1>
    <span style="--i:1">
      <h2>-</h2>
    </span>
    <span style="--i:2">
      <h2>-</h2>
    </span>
    <span style="--i:3">
      <h2>-</h2>
    </span>
    <span style="--i:4">
      <h2>-</h2>
    </span>
    <span style="--i:5">
      <h2>-</h2>
    </span>
    <span style="--i:6">
      <h2>-</h2>
    </span>
    <span style="--i:7">
      <h2>-</h2>
    </span>
    <span style="--i:8">
      <h2>-</h2>
    </span>
    <span style="--i:9">
      <h2>-</h2>
    </span>
    <span style="--i:10">
      <h2>-</h2>
    </span>
    <span style="--i:11">
      <h2>-</h2>
    </span>
    <span style="--i:12">
      <h2>-</h2>
    </span>
    <span style="--i:13">
      <h2>-</h2>
    </span>
    <span style="--i:14">
      <h2>-</h2>
    </span>
    <span style="--i:15">
      <h2>-</h2>
    </span>
  </div>
  <div>
    <h2>Result: {{result}}</h2>
```

```
  </div>
</body>
</html>
```

- ✓ **app.component.ts :**

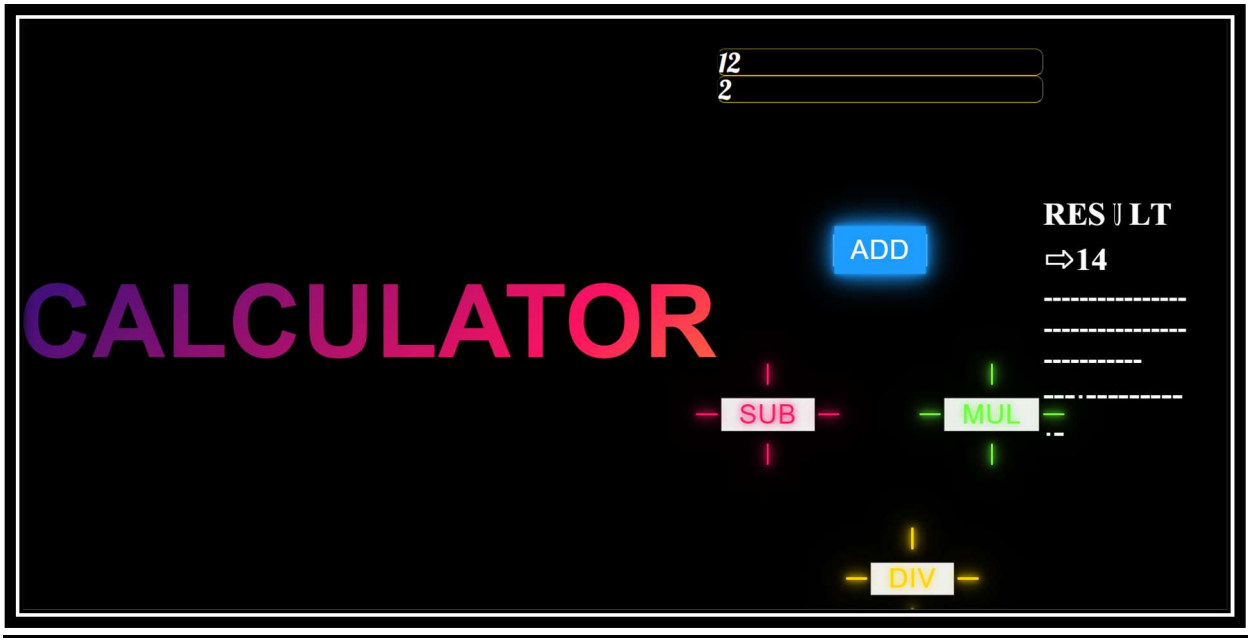
```
import { Component } from '@angular/core';

@Component({
    selector: 'app-root',
    templateUrl: './app.component.html',
    styleUrls: ['./app.component.css']
})
export class AppComponent {
    title = 'MyCalculator';
    num1!: number;
    num2!: number;
    result!: number;
    add() {
        this.result = this.num1 + this.num2;
    }
    sub() {
        this.result = this.num1 - this.num2;
    }
    mul() {
        this.result = this.num1 * this.num2;
    }
    div() {
        this.result = this.num1 / this.num2;
    }
}
```

- ✓ **app.module.ts :**

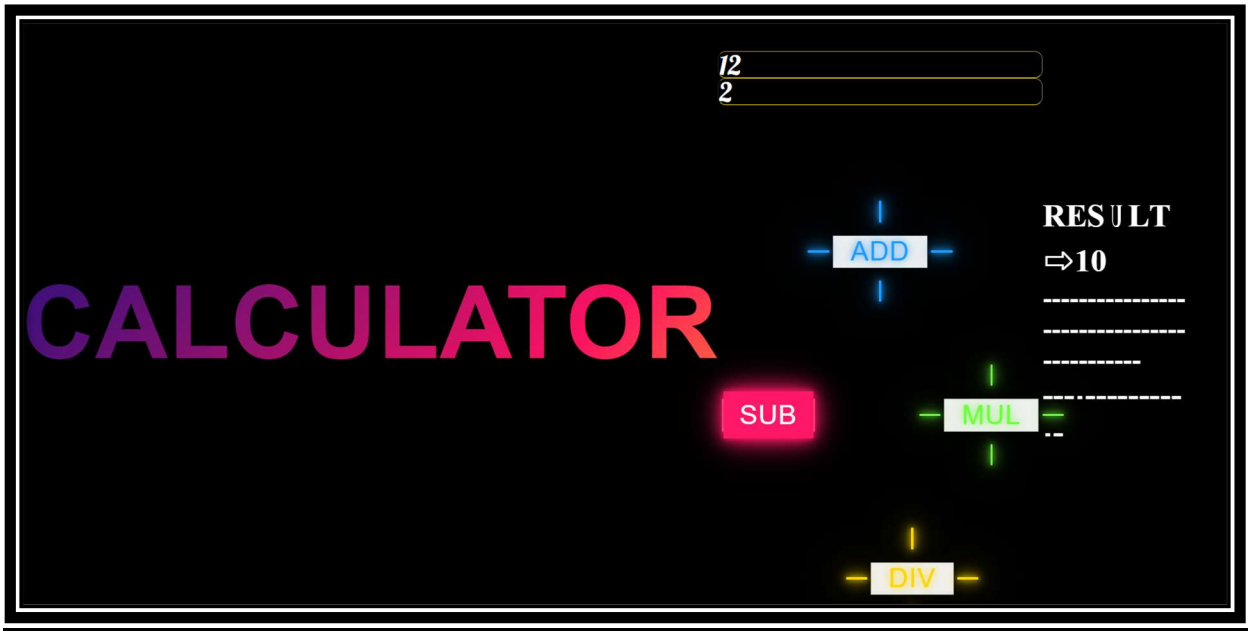
```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { FormsModule } from '@angular/forms';
import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';

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

✓ **Output :**

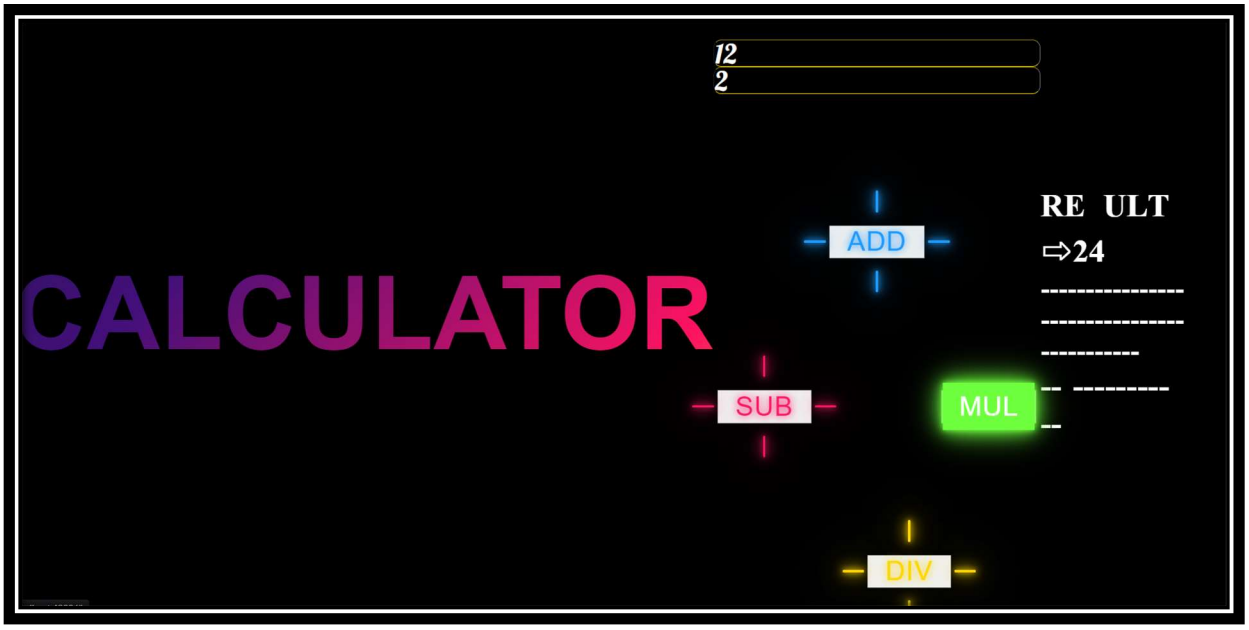
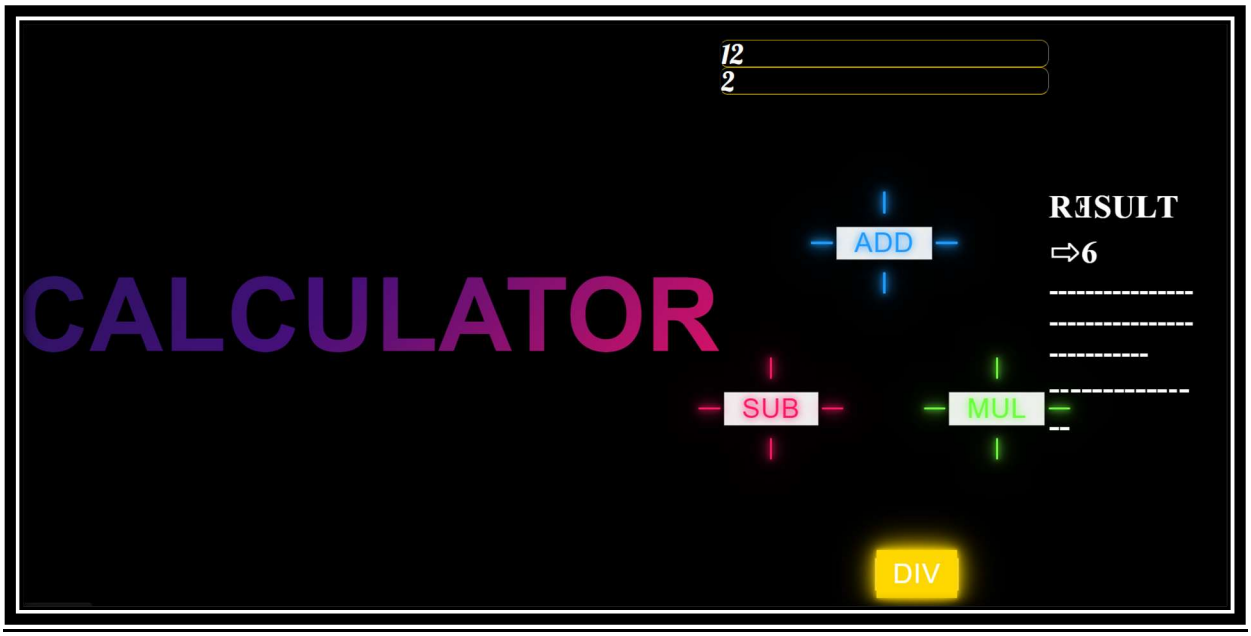
Addition :



Subtraction :



Multiplication :



Division: