



**Ganpat
University**

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-----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-character">CALCULATOR</h1>
      </div>
    </div>
  </div>
  <div class="container">
    <p>
      <span class="input">
        <input type="number" [(ngModel)]="num1" value="white" placeholder="Enter Your Number">
      </span>
    </p>
  </div>
</body>
</html>
```

```

        <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 :

```

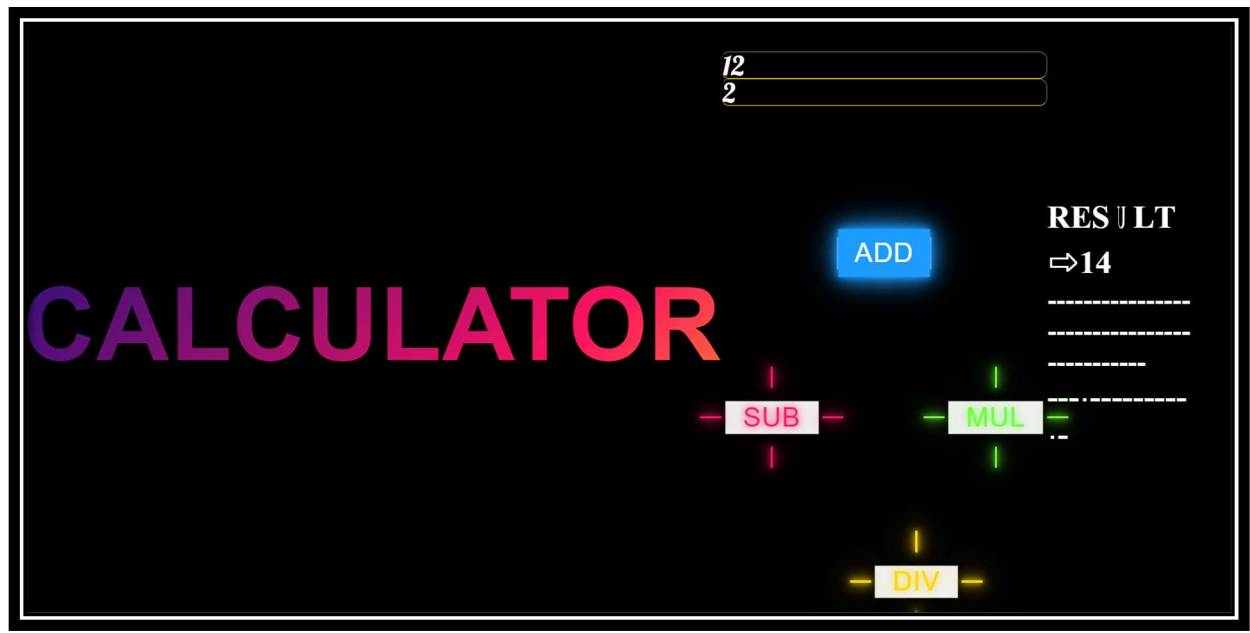
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { FormsModule } from '@angular/forms';
import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';

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

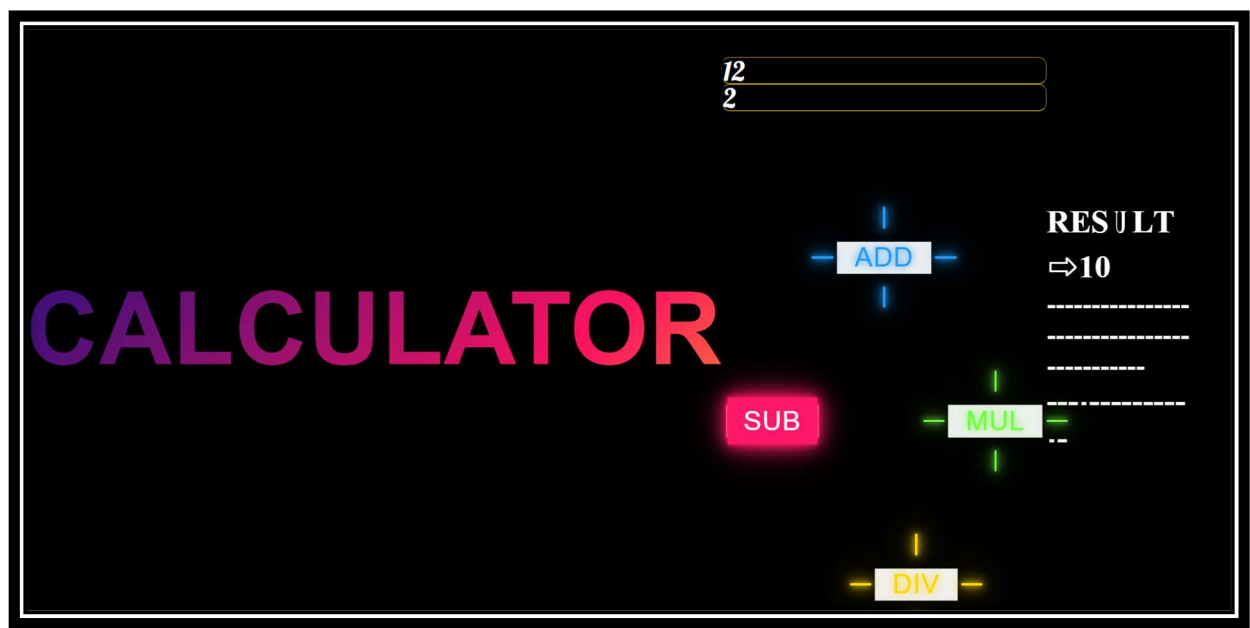
```

✓ **Output :**

Addition :



Subtraction :



Multiplication :

A digital calculator interface with a black background. The display shows the numbers 12 and 2 stacked vertically. Below the display, there are four operation buttons: ADD (blue), SUB (red), MUL (green), and DIV (yellow). The MUL button is highlighted with a green glow. To the right of the buttons, the text 'RE ULT' is displayed above '⇒24'. Below this, there are four horizontal dashed lines for additional results. The word 'CALCULATOR' is written in large, stylized letters on the left side of the interface.

Division:

A digital calculator interface with a black background. The display shows the numbers 12 and 2 stacked vertically. Below the display, there are four operation buttons: ADD (blue), SUB (red), MUL (green), and DIV (yellow). The DIV button is highlighted with a yellow glow. To the right of the buttons, the text 'RESULT' is displayed above '⇒6'. Below this, there are four horizontal dashed lines for additional results. The word 'CALCULATOR' is written in large, stylized letters on the left side of the interface.

