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Reg No. – 201900273

Sec – B

App.component.html → Code

```
<div style="text-align: center;">

  <h1><em>Calculator using Angular.js</em></h1>
  <br>

  <input type="text" [(ngModel)]="num1">
  <input type="text" [(ngModel)]="num2">

  <br><br>
  <button (click)="add()">Add</button>
  <em>Result = {{num3}}</em><br><br>
  <button (click)="sub()">Sub</button>
  <em>Result = {{num4}}</em><br><br>
  <button (click)="mul()">Mul</button>
  <em>Result = {{num5}}</em><br><br>
  <button (click)="div()">Div</button>
  <em>Result = {{num6}}</em><br><br>

  <em>Factorial of {{num1}} is = {{num1 | factorial}}</em><br><br>
  <em>Factorial of {{num2}} is = {{num2 | factorial}}</em><br><br>

</div>
```

App.component.ts → Code

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

@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.scss']
})
export class AppComponent {
  title = 'calc';

  num1!: string;
  num2!: string;
  num3!: number;
  num4!: number;
  num5!: number;
  num6!: number;

  add(){
    this.num3 = parseInt(this.num1) + parseInt(this.num2);
  }
  sub(){
    this.num4 = parseInt(this.num1) - parseInt(this.num2);
  }
  mul(){
    this.num5 = parseInt(this.num1) * parseInt(this.num2);
  }
  div(){
    this.num6 = parseInt(this.num1) / parseInt(this.num2);
  }
}
```

factorial.pipe.ts → Code

```
import { Pipe, PipeTransform } from '@angular/core';

@Pipe({
  name: 'factorial'
})
export class FactorialPipe implements PipeTransform {

  transform(value: any, ...args: any[]): any {

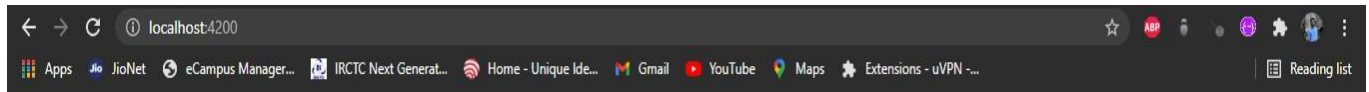
    let fact = 1;
    for (let i = value; i > 1; i--) {
      fact = fact * i;
    }
    return fact;
  }
}
```

App.module.ts → Code

```
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';
import { FactorialPipe } from './factorial.pipe';

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

Screenshot of Working Calculator→



Calculator using Angular.js

9 5

Add Result = 14

Sub Result = 4

Mul Result = 45

Div Result = 1.8

Factorial of 9 is = 362880

Factorial of 5 is = 120