```
import { Component} from '@angular/core';
@Component({
 selector: 'ng-calculator',
 templateUrl: './calculator.component.html',
export class CalculatorComponent {
Template:
<div class="container-fluid">
 <div class="jumbotron col-sm-4 p-2 m-0 bg-inverse">
  <h1 class="text-center">Angular Calculator</h1>
  //Displays the User Input
  <div class="input-group input-group-sm col-sm-12 m-0 p-0">
    <div class="col-sm-12 form-control text-lg-right"</pre>
type="text">{{input}}</div>
   </div>
  //Displays the Results
  <div class="input-group input-group-sm col-sm-12 m-0 p-0">
    <div class="form-control text-sm-right"</pre>
type="text">{{result}}</div>
   </div>
  <div class="col-sm-12 p-1 m-0">
    <button class="btn btn-info col-sm-6"
type="button" (click)="allClear()">C</button>
    <button class="btn btn-warning col-sm-3"</pre>
type="button" (click)="clear()">x</button>
    <button class="btn btn-secondary col-sm-3"</pre>
type="button" (click)="pressOperator('/')">/</button>
  </div>
  <div class="col-sm-12 p-1 m-0">
    <button class="btn btn-lg btn-outline-secondary col-sm-3 p-1"</pre>
type="button" (click)="pressNum('7')">7</button>
```

```
<button class="btn btn-lg btn-outline-secondary col-sm-3 p-1"</pre>
type="button" (click)="pressNum('8')">8</button>
    <button class="btn btn-lg btn-outline-secondary col-sm-3 p-1"</pre>
type="button" (click)="pressNum('9')">9</button>
    <button class="btn btn-lg btn-secondary col-sm-3 p-1"</pre>
type="button" (click)="pressOperator('*')">X</button>
   </div>
   <div class="col-sm-12 p-1 m-0">
    <button class="btn btn-lg btn-outline-secondary col-sm-3 p-1"</pre>
type="button" (click)="pressNum('4')">4</button>
    <button class="btn btn-lg btn-outline-secondary col-sm-3 p-1"</pre>
type="button" (click)="pressNum('5')">5</button>
    <button class="btn btn-lg btn-outline-secondary col-sm-3 p-1"</pre>
type="button" (click)="pressNum('6')">6</button>
    <button class="btn btn-lq btn-secondary col-sm-3 p-1"
type="button" (click)="pressOperator('-')">-</button>
   </div>
   <div class="col-sm-12 p-1 m-0">
    <button class="btn btn-lg btn-outline-secondary col-sm-3 p-1"</pre>
type="button" (click)="pressNum('1')">1</button>
    <button class="btn btn-lg btn-outline-secondary col-sm-3 p-1"</pre>
type="button" (click)="pressNum('2')">2</button>
    <button class="btn btn-lg btn-outline-secondary col-sm-3 p-1"</pre>
type="button" (click)="pressNum('3')">3</button>
    <button class="btn btn-lg btn-secondary col-sm-3 p-1"</pre>
type="button" (click)="pressOperator('+')">+</button>
   </div>
   <div class="col-sm-12 p-1 m-0">
    <button class="btn btn-lg btn-outline-secondary col-sm-3 p-1"</pre>
type="button" (click)="pressNum('.')">.</button>
    <button class="btn btn-lg btn-outline-secondary col-sm-3 p-1"</pre>
type="button" (click)="pressNum('0')">0</button>
    <button class="btn btn-lq btn-success col-sm-6 p-1"
type="button" (click)="getAnswer()">=</button>
   </div>
 </div>
Calculator Logic:
import { Component } from '@angular/core';
```

```
@Component({
 selector: 'ng-calculator',
 templateUrl: './calculator.component.html',
export class CalculatorComponent {
 input:string = ";
 result:string = ";
 pressNum(num: string) {
  //Do Not Allow . more than once
  if (num==".") {
    if (this.input !="" ) {
     const lastNum=this.getLastOperand()
     console.log(lastNum.lastIndexOf("."))
     if (lastNum.lastIndexOf(".") >= 0) return;
  }
  //Do Not Allow 0 at beginning.
  //Javascript will throw Octal literals are not allowed in strict
mode.
  if (num=="0") {
    if (this.input=="" ) {
     return;
    const PrevKey = this.input[this.input.length - 1];
    if (PrevKey === '/' || PrevKey === '*' || PrevKey === '-' ||
PrevKey === '+') {
      return;
  this.input = this.input + num
  this.calcAnswer();
 }
```

```
getLastOperand() {
  let pos:number;
  console.log(this.input)
  pos=this.input.toString().lastIndexOf("+")
  if (this.input.toString().lastIndexOf("-") > pos)
pos=this.input.lastIndexOf("-")
  if (this.input.toString().lastIndexOf("*") > pos)
pos=this.input.lastIndexOf("*")
  if (this.input.toString().lastIndexOf("/") > pos)
pos=this.input.lastIndexOf("/")
  console.log('Last '+this.input.substr(pos+1))
  return this.input.substr(pos+1)
 }
 pressOperator(op: string) {
  //Do not allow operators more than once
  const lastKey = this.input[this.input.length - 1];
  if (lastKey === '/' || lastKey === '*' || lastKey === '-' ||
lastKey === '+') {
    return;
  }
  this.input = this.input + op
  this.calcAnswer();
 }
 clear() {
  if (this.input !="" ) {
    this.input=this.input.substr(0, this.input.length-1)
 allClear() {
  this.result = ";
  this.input = ";
```

```
calcAnswer() {
  let formula = this.input;

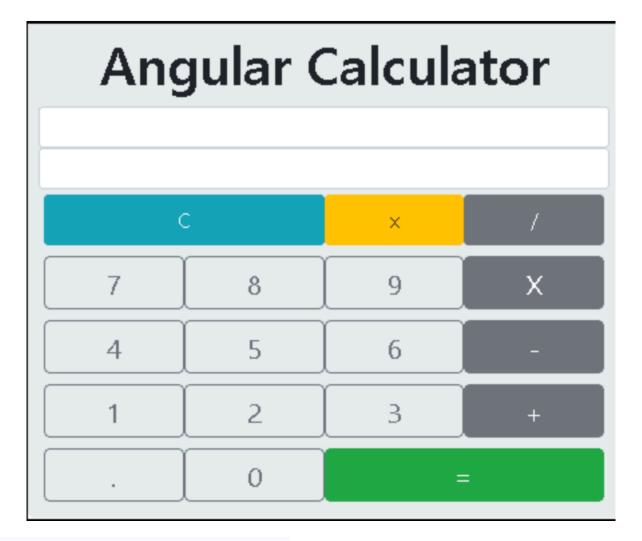
let lastKey = formula[formula.length - 1];

if (lastKey === '.') {
  formula=formula.substr(0,formula.length - 1);
  }

lastKey = formula[formula.length - 1];

if (lastKey === '/' || lastKey === '*' || lastKey === '-' ||
lastKey === '+' || lastKey === '.') {
  formula=formula.substr(0,formula.length - 1);
  }

console.log("Formula " +formula);
```



this.result = eval(formula);

```
getAnswer() {
    this.calcAnswer();
    this.input = this.result;
    if (this.input=="0") this.input="";
}
```

Screenshot: