

# CMP216 Mobile Programming Systems

## Assignment 1

Due Date: 25/04/2025, 4:00pm

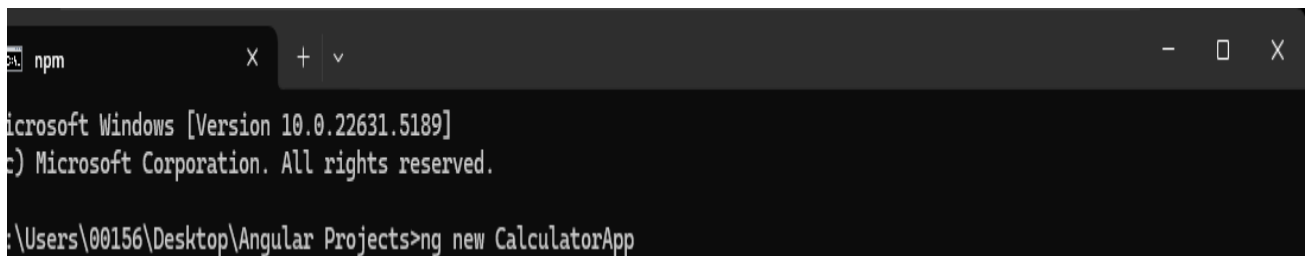
Name: Hazel.Ikum

Id: 00156

### Instruction

1. Create a calculator application using angular framework with the following requirements:

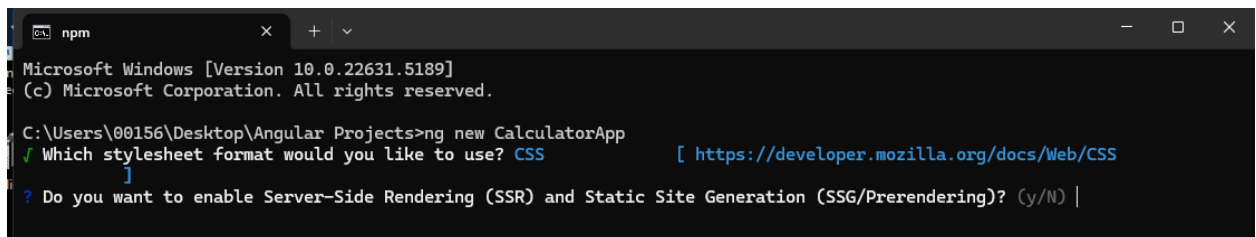
- Project name as “calculatorApp”. (2 marks)



```
npm
Microsoft Windows [Version 10.0.22631.5189]
(c) Microsoft Corporation. All rights reserved.

C:\Users\00156\Desktop\Angular Projects>ng new CalculatorApp
```

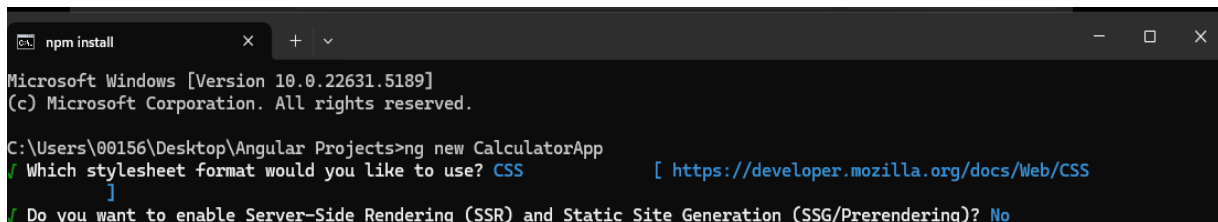
- Choose “CSS” as the stylesheet language. (2 marks)



```
npm
Microsoft Windows [Version 10.0.22631.5189]
(c) Microsoft Corporation. All rights reserved.

C:\Users\00156\Desktop\Angular Projects>ng new CalculatorApp
✓ Which stylesheet format would you like to use? CSS [ https://developer.mozilla.org/docs/Web/CSS ]
? Do you want to enable Server-Side Rendering (SSR) and Static Site Generation (SSG/Prerendering)? (y/N) |
```

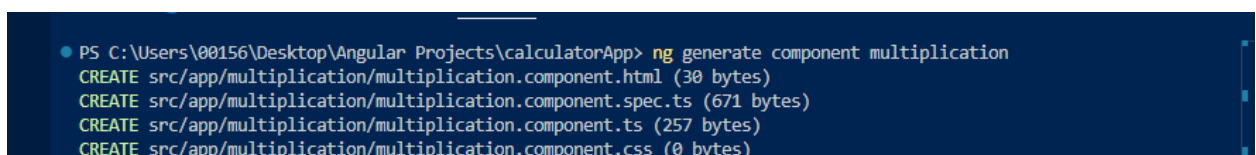
- Disable server-side rendering. (2 marks)



```
npm install
Microsoft Windows [Version 10.0.22631.5189]
(c) Microsoft Corporation. All rights reserved.

C:\Users\00156\Desktop\Angular Projects>ng new CalculatorApp
✓ Which stylesheet format would you like to use? CSS [ https://developer.mozilla.org/docs/Web/CSS ]
✓ Do you want to enable Server-Side Rendering (SSR) and Static Site Generation (SSG/Prerendering)? No
```

- Generate a component and name it as “multiplication”. (2 marks)



```
PS C:\Users\00156\Desktop\Angular Projects\calculatorApp> ng generate component multiplication
CREATE src/app/multiplication/multiplication.component.html (30 bytes)
CREATE src/app/multiplication/multiplication.component.spec.ts (671 bytes)
CREATE src/app/multiplication/multiplication.component.ts (257 bytes)
CREATE src/app/multiplication/multiplication.component.css (0 bytes)
```

- Generate a component and name it as “division”. (2 marks)

```
PS C:\Users\00156\Desktop\Angular Projects\calculatorApp> ng generate component division
CREATE src/app/division/division.component.html (24 bytes)
CREATE src/app/division/division.component.spec.ts (629 bytes)
CREATE src/app/division/division.component.ts (233 bytes)
CREATE src/app/division/division.component.css (0 bytes)
```

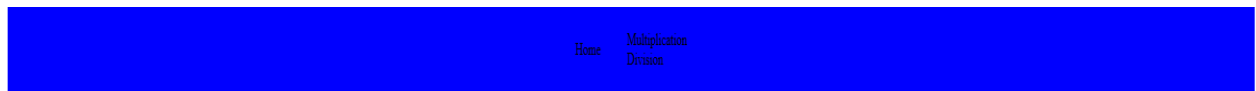
- Generate a component and name it as “home”. (2 marks)

```
PS C:\Users\00156\Desktop\Angular Projects\calculatorApp> ng generate component home
CREATE src/app/home/home.component.html (20 bytes)
CREATE src/app/home/home.component.spec.ts (601 bytes)
CREATE src/app/home/home.component.ts (217 bytes)
CREATE src/app/home/home.component.css (0 bytes)
```

- Generate a “header” component under the components folder. (4 marks)

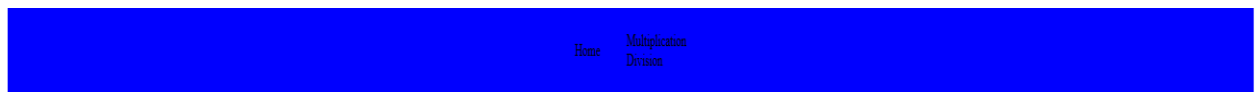
```
PS C:\Users\00156\Desktop\Angular Projects\calculatorApp> ng generate component component/header
CREATE src/app/component/header/header.component.html (22 bytes)
CREATE src/app/component/header/header.component.spec.ts (615 bytes)
CREATE src/app/component/header/header.component.ts (225 bytes)
CREATE src/app/component/header/header.component.css (0 bytes)
PS C:\Users\00156\Desktop\Angular Projects\calculatorApp>
```

- The header of your application should contain the labels, “Home”, “Multiplication”, “Division”. (3 marks)



Welcome to my Calculator App!

- The color of the header must be blue. (1 mark)



Welcome to my Calculator App!

- The multiplication page must consist of an interface that allows the user to enter two numbers then prints out the product. **(4 marks)**

## Multiplication Calculator

First Number	<input type="text" value="First Number"/>
Second Number	<input type="text" value="Second Number"/>
<input type="button" value="multiply"/>	
Result	

- The division page should contain the same interface as multiplication but prints out the quotient output of the two numbers. **(4 marks)**

## Division Calculator

First Number	<input type="text" value="First Number"/>
Second Number	<input type="text" value="Second Number"/>
<input type="button" value="divide"/>	
Result	

- The homepage should contain the text “Welcome to my calculator app”. **(1 mark)**
  - User should be able to navigate between the three pages of your app. **(1 mark)**
  - The functionality of your app should contain the function names “mul” and “div” for the respective operation calculation. **(2 marks)**
2. Take screenshots of your progress with descriptions, compile it in a pdf file and submit via Moodle. **(3 marks)**
  3. Your application will be assessed in class upon deployment. **(5 marks)**

**Total: 40 marks**