

# TECHM COE

## Assessment 1

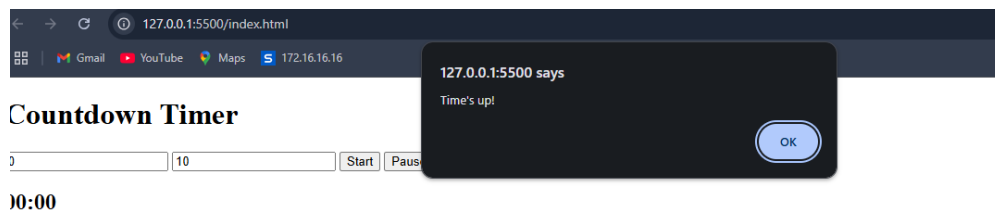
### 1) Countdown Timer

- ◆ Build a countdown timer where users can input time (in minutes/seconds) and start the countdown.
- ◆ Features: Start, pause, reset buttons, and alert when time is up.

#### Countdown Timer

00:07



### 2) Calculator

- ◆ Create a basic calculator with addition, subtraction, multiplication, and division.
- ◆ Features: Interactive number buttons, clear button, and proper UI styling



#### A. Employee Salary Calculator (Encapsulation & Methods)

- ◆ Concepts Used: Encapsulation, Methods, Objects

- ◆ Problem Statement:

- Create an Employee class with attributes like name, ID, basic salary.
- Implement a method to calculate net salary (basic + bonus - tax).

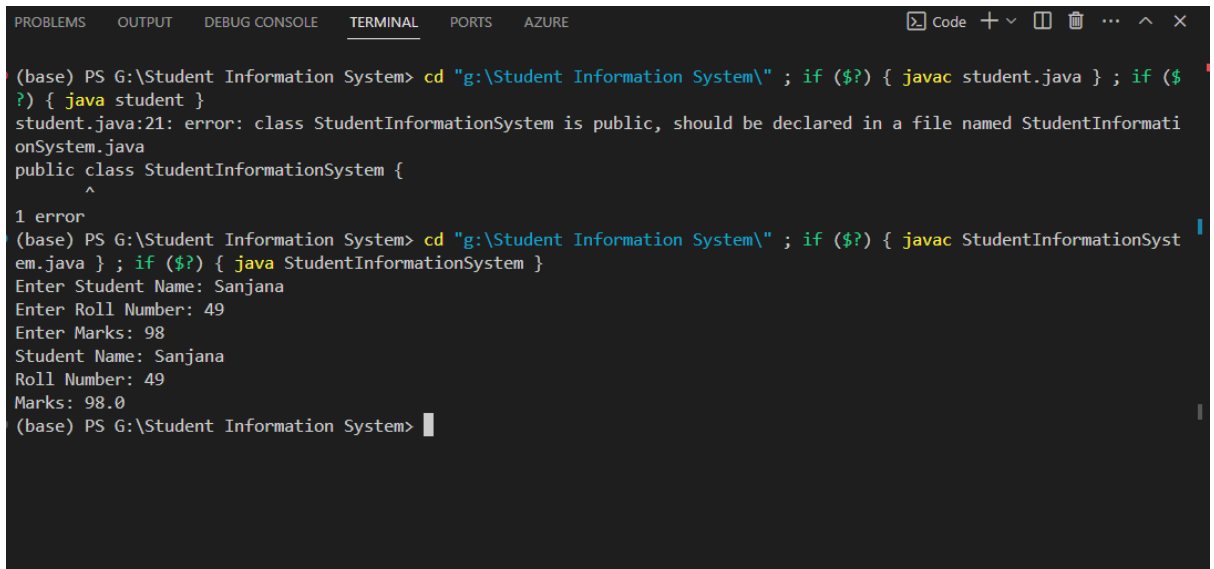
Create an object, take input from the user, and display salary details

```
Enter Employee Name: Sanjana
Enter Employee ID: 1245
Enter Basic Salary: 1000000
Enter Bonus: 20000
Enter Tax Amount: 30000
Employee Name: Sanjana
Employee ID: 1245
Basic Salary: 1000000.0
Bonus: 20000.0
Tax: 30000.0
Net Salary: 990000.0
(base) PS G:\Employee Salary Calculator>
```

### C. Student Information System(OOP-Based Classes, Objects, Encapsulation)

#### ◆ Problem Statement:

- Create a Student class with attributes like name, roll number, and marks.
- Use a method to display the student details.
- Create an object of the class and call the method to print student information.



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE
(base) PS G:\Student Information System> cd "g:\Student Information System\" ; if ($?) { javac student.java } ; if ($?) { java student }
student.java:21: error: class StudentInformationSystem is public, should be declared in a file named StudentInformationSystem.java
public class StudentInformationSystem {
      ^
1 error
(base) PS G:\Student Information System> cd "g:\Student Information System\" ; if ($?) { javac StudentInformationSystem.java } ; if ($?) { java StudentInformationSystem }
Enter Student Name: Sanjana
Enter Roll Number: 49
Enter Marks: 98
Student Name: Sanjana
Roll Number: 49
Marks: 98.0
(base) PS G:\Student Information System>
```