**Assignment 1 – Single Responsibility Principle (SRP) in C++**

**Lab Assignment:**

**Objective:**

Implement a simple embedded system class related to a temperature sensor that adheres to the Single Responsibility Principle.

**Instructions:**

Create a class named TemperatureSensor with the following responsibilities:

* Capturing temperature readings.
* Calculating the average temperature.
* Displaying the temperature information.

Ensure that each responsibility is in a separate class, following the Single Responsibility Principle.