Consider the incomplete C++ class (Temperature.cpp and Temperature.h) found in this handout and answer the following 10 questions.

For questions 1 to 6, write your answer in the space provided below the question.

1. Name one getter method you could add to the class Temperature.

2. Write a statement in C++ that creates an array of 50 Temperature objects.

3. Is the class invariant satisfied when a Temperature object is instantiated using the default constructor? Briefly explain.

4. Why are the data members (variables) of the Temperature class private?

5. Name three fundamental (or basic) data types used in the Temperature class.
6. You are asked to write a Temperature Converter application that transforms Celsius temperatures into Fahrenheit temperatures. To do so, you decide to use the `Temperature` class given in this handout. Write an **algorithm** for the main function of this `TemperatureConverter` program.

For questions 7 to 10, write your answer directly on the `Temperature` class definition handout, in the appropriate space provided.

7. Write a class description for this `Temperature` class.

8. Add a **Precondition** to the method

   ```cpp
   void Temperature::raise( const double amount )
   ```

9. Fill in the missing parameters for one of the constructors of the `Temperature` class.

10. Write a **Postcondition** for the method

    ```cpp
    Temperature::Temperature()
    ```

*Have fun!*