CSC 111 Programming Set 1

1. Program 1:

Given the following class diagram create the class Weight:

![Class Diagram](image)

Create the class Program1 with a main method that declares a Weight object. The class must read the weight in pounds from the keyboard and stores it in pounds data member. In addition, you must calculate the weight in kilograms and grams and store them in the corresponding members. Finally, you must print the weight in kilograms and grams.

(Hint: 1 pound is equal to 0.453592 kilogram and 453.59237 grams)

2. Program 2:

Given the following class diagram create the class Duration:

![Class Diagram](image)

Create the class Program2 that creates a Duration object. It must read the number of days (stores it in corresponding member). Then it computes duration number of years and months and days (stores it in corresponding members). Finally, it must print the duration.

(Hint: 1 year is equal to 12 months, every month has 30 days)

3. Program 3:

Given the following class diagram implement the class Employee:
Create a class `Program3` that reads the id, name, hours and hourlyRate of an employee. It must also create an `Employee` object and store the values. Finally, it should print the employee's salary, name and id.

Salary = hours * hourlyRate