

Lab Assignment 1

Date: 27 September 2022

Duration: 60 minutes

Description

Date

Date class contains three encapsulated attributes, day, month, and year. Provide a three-argument constructor and setters and getters. Constructor should initialize the variables according to the rules of *month, day, The Year* should be any positive number and ignore the leap year for February.

Person

This class should contain *firstName*, *lastName*, and *dob* of Date type. All attributes should be encapsulated. Then, create a parameterized constructor with three arguments, *firstName*, *lastName* and *Date*. Inside the body of the constructor, initialize all three instance variables.

Driver

In the Driver, class, you must create a static array of a Person type of length 10. Initialize all ten elements of a person's list with some random values. Create two methods *displayList* and *countPersons* to display the details of each person and count list elements, respectively.

Instructions:

Use proper access modifiers for a specific member of a class.

Use proper names as suggested in UML class diagram

The code should be indented.

The timely runnable code will have a maximum weightage.

