

CSC1850 Object-oriented Programming (Fall 2025)
Homework Assignment 4
(10 points)

Due Date: Saturday, September 20 before midnight

Problem

The Java class called **Holiday** is started below. An object of class **Holiday** represents a holiday during the year. This class has three instance variables:

- name, which is a **String** representing the name of the holiday
- day, which is an **int** representing the day of the month of the holiday
- month, which is a **String** representing the month the holiday is in

```
class Holiday {  
    private String name;  
    private int day;  
    private String month;  
    // your code goes here, including constructors, some get/set methods...  
}
```

Below a) is inside the **Holiday** class.

- a) Write a **constructor** for the class Holiday, which takes a String representing the name, an **int** representing the day, and a String representing the month as its arguments, and sets the class variables to these values.
- b) **A default constructor.**

Below c) is **inside** of **Holiday** class.

c) Write a method **isSameMonth(Holiday hd)**, which compares two instances of the class Holiday, and returns the Boolean value true if they have the same month, and false if they do not.

Below d) e) f) are **outside** of Holiday class, **inside** the “**HW_3**” class.

- c) Write a piece of code that creates a Holiday instance with the name “**IndependenceDay**”, with the day “4”, and with the month “July”.
- d) Create “Thanksgiving” object .
- e) Call the method “isSameMonth” to show that these two holidays are not in the same month.

Please implement a “**HW_3**” class with “Holiday” class.

- 1) Each class is in its **own** *.java file.

Other Requirements

Your code should include comments.

Submission

Submit your source code ???**.java** on Canvas.