Lab 4

Instructions: Complete the steps below. Be sure to show your code to one of the lab TAs before you leave, so that you can receive credit for this lab. You must also upload a copy of all your source code (.java) files to the link on Blackboard by 11:59 PM on September 19.

1. Write a program that prompts the user to enter a three digit (positive) integer and determines whether it is a palindrome integer. An integer is palindrome if it reads the same from right to left and from left to right. Here are sample runs of this program:

    Enter a three-digit integer : 121
    121 is a palindrome

    Enter a three-digit integer : 123
    123 is not a palindrome
    [Note: Please do not change integer to String.]

2. Write a program that prompts the user to enter an integer and determine whether it is divisible by 5 and 6, whether it is divisible by 5 or 6, and whether it is divisible by 5 or 6, but not both. Here is a sample run of the program:

    Enter an integer: 10
    Is 10 divisible by 5 and 6 ? false
    Is 10 divisible by 5 or 6 ? true
    Is 10 divisible by 5 or 6, but not both ? true

Grading Guidelines: This lab is graded on a scale of 0-6 points, assigned as follows:

- **0 points:** Student is absent or does not appear to have completed any work for the lab
- **2 point (2*1):** Student has written the program, but it has errors.
- **4 points (2*2):** Student has written the program it compiles without error, but it does not produce the correct output.
- **6 points (2*3):** Student has written the program and it compiles and runs correctly, without any errors.