

Lab 5

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 Wednesday September 16, 2020 for L01, L02, L03, L05** and by **11:59 PM on Tuesday September 15, 2020 for L06, L07, L08 and L09**.

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 the distance to drive, the fuel efficiency of the car in miles per gallon, and the price per gallon the display the cost for the trip. Here is a sample run:

```
Enter the driving distance: 900.5
Enter Miles per gallon: 25.5
Enter price per gallon: 3.55
The cost of driving is: $125.36
```

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.