COMP311 Static Code Analysis exercise

**Student1 name/id \_Brandon Koo 300794094\_\_\_\_**

**[Student2 name/id \_Winston Koczkodaj 300895095\_\_\_\_](optional)**

1. In the Checkstyle violations view, double-click the two violations noted in **step 10** to find the two occurrences of this problem. One occurs in class **UserPrompter** in method **getYesNoAnswer()**. Where does the other appear:

a. Class \_\_\_\_Ticket\_\_\_ Method \_\_Ticket(Passenger passenger, Seat seat, double Price)\_\_\_\_\_\_

b. How would you improve the code in the method you just named?

At declaration set the ticketNo to 1000000 instead of the constructor.

2. What is the most common type of violation still reported by Checkstyle?

a. There are \_32\_\_ occurrences of Missing a Javadoc comments

b. Can you figure out how to disable checking for this violation? What module ( Checkstyle category )\_Javadoc Comment\_ and specific check Style Javadoc and Package Javadoc must you ignore?

3. How did you change the code to remove the violation in step 13? Copy the improved line(s) of code here:

I add the braces {} on the if statements in UserPrompter

**if** (answer == **null**) {

**return** **false**;

}

**char** ans = answer.toUpperCase().charAt(0);

**if** (ans == 'Y') {

**return** **true**;

}

4. There is one occurrence of an inline conditional.

a. What operator is an inline conditional? \_\_\_\_? and : (ternary)\_\_\_\_ Hint: give the operator symbols

b. Why is using the inline operator considered poor form? (Give and explanation or name the ISO 9126 quality characteristic it offends)

Avoid inline conditionals because

5. In the Checkstyle violations view, double-click the Cyclomatic complexity violation, to see the list of occurrences of this problem. Where does it occur?

a. What is the class name \_\_\_Manifest\_\_\_\_\_\_\_ and method name main ?

b. What is the cyclomatic number reported for this method? \_\_6\_\_\_\_

c. Does the reported cyclomatic number agree with the complexity calculated using the technique given in class?

Circle: **Yes** or No If no, what number did you calculate by manually \_\_\_\_\_\_\_