COMP311 Static Code Analysis exercise

**Student1 name/id:** Aslan Mirsakiyev #300850326

**Student2 name/id:** Jisna Kayakkal #300861493

**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.java Method: Ticket(Constructor)

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

We would call the number once.

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

a. There are \_\_\_\_\_\_\_\_\_ occurrences of

b. Can you figure out how to disable checking for this violation? What module (Checkstyle category )\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and specific check \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_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:

**4.** There is one occurrence of an inline conditional.

a. What operator is an inline conditional? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 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)

**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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and method name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

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 \_\_\_\_\_\_\_\_\_\_