ACS-1903 **Lab #3** **Due** by Wednesday Sept 25 at 11:59 pm

- If you have questions during this lab do not hesitate to ask your lab demonstrator.
- All classes **must** have comments at the beginning containing your name and student number.

1. Write a program named `SocialInsuranceNumber` that prompts the user for a SIN. The user will enter the SIN as 9 digits, the program gets the SIN using `Scanner` with `next()`, and then displays the SIN with hyphens after the 3rd and 6th digits. Sample interaction with the program:

```
Program: Enter a 9 digit SIN:
User: 611001088
Program: 611-001-088
```

Note that `String` has a method `substring`() that takes two arguments (a starting index, and an ending index) and returns a substring.
For example the output from the following is **"There IsJo"**:

```
String sin = "HelloThereMyNameIsJo";
System.out.println(sin.substring(5,10)
    +" "
    +sin.substring(16,20));
```

2. Write a program named `TrueFalseQuestion.` Create 2 variables that store your question and answer. Using `JOptionPane`, prompt the user by displaying your question. Store the user's input in another variable, and determine if it was correct. Using a dialog box, display "Great! You are correct" if the user enters the correct answer, and "Sorry, that is not correct" if the user's input does not match the answer. Ensure that your program is case-insensitive and trims all leading and trailing spaces that the user may have input. Note that `String` has a method `equals`(…) to determine if two strings are the same. Sample usage: `userAnswer.equals(correctAnswer)`

Sample output for a question (answer: "True"):

```
System:   Potter's first name is Harry. True or False?
User:     true
System:   Great! You are correct
```

Submit the two files

- `SocialInsuranceNumber.java`
- `TrueFalseQuestion.java`

to the email corresponding **to your lab section** with a **Subject line** `Lab3`
E.g. if you are registered in lab ACS-1903L-070 then the email address to send to is
1903L-070@acs.uwinnipeg.ca