

CSC262 – Week4 Assignment

Due on: Saturday May 4, 2019

Chapter 11: (20 points)

A: Write an Exception class called **TemperatureTooLow.java** that will be used in the following program.

B: Write a class called **Fridge.java**, which has an instance variable called *temperature* of type `int` and the following methods:

```
public void setTemp(int temp){
```

```
    ...
```

```
}
```

```
public boolean tempNormal(){
```

```
    ...
```

```
}
```

The **setTemp** method sets the *temperature* instance variable.

When **tempNormal** method is called, if *temperature* < 10, it throws

TemperatureTooLow Exception otherwise returns **true**.

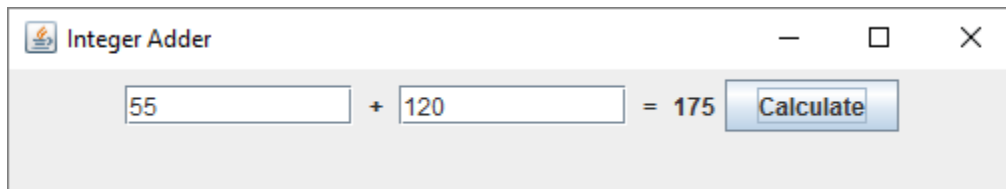
C: Write a **TempTest.java** class that does the following:

- 1- Creates an instance of the Fridge class.
- 2- Calls the **setTemp** method to set the fridge's temperature to 35 and then prints the result of calling **tempNormal** method.
- 3- Next it Calls the **setTemp** method again to set the fridge's temperature to 8 and again prints the result of calling **tempNormal** method.
- 4- In steps 2 and 3, the **tempTest.java** class should catch the **TemperatureTooLow** Exception where required.
- 5- The **TemperatureTooLow** Exception shows the current temperature of the fridge when thrown.

Chapters 12 & 13: (20 points)

Use JavaFX to write a program that creates the following GUI. When the **Calculate** button is pressed, the sum of the two integer numbers that are entered into the text fields is shown after the equal sign. The following image demonstrate an example where

the values 55 and 120 are entered into the text fields and the result of 175 is shown after the equal sign:



Chapter 14: (10 points)

Answer exercise 14.8 of the text book:

14.8 (*Tokenizing Telephone Numbers*) Write an application that inputs a telephone number as a string in the form (555) 555-5555. The application should use `String` method `split` to extract the area code as a token, the first three digits of the phone number as a token and the last four digits of the phone number as a token. The seven digits of the phone number should be concatenated into one string. Both the area code and the phone number should be printed. Remember that you'll have to change delimiter characters during the tokenization process.