COMP2120 - Fall 2020

Lab 1 Activities

Activity 1.

Type in the following program. Then, using the Java API Documentation on Internet (https://docs.oracle.com/en/java/javase/13/docs/api/index.html), try to complete the first line of the code. Then try to run the program and fix any compile-time errors you find in it. After the successful run, modify it to print "Hello, *name*!", displaying the name that the user typed in.

```
import javax.swing. ...;

public Class DialogViewer

      Public static main(String[] args) {

            String name = JOptionPane.showInputDialog("What is your name?")

            System.Out.println(Name);
      }
}
```

Activity 2.

Write a Java program that prints out the first names of three of your friends in two columns. Remember, first, to store their names in separate variables. Start each line by the line number starting from 1, which is stored in a variable and change it whenever needed.
Hint: Same as in C, you can declare an integer variable to store the line number in it and increase it by 1, the same as that in C. For the tab space between the line number and name, again use the corresponding specifier you used in C, by \t inside the printout statement.

Example output:

1 Lisa
2 Shakib
3 Sara

Activity 3.

Using the Java API Documentation, try to find the Rectangle class inside java.awt package. Then, figure out if there is any method in Rectangle class for setting its location, i.e. the values of x and y coordination, as well as the values of width and height of a given Rectangle object.

Activity 4.

If you do not already have an IDE (Integrated Development Environment), such as Eclipse or IntelliJ IDEA, install one on your computer from the Internet.

Eclipse: https://www.eclipse.org/downloads/

IntelliJ IDEA: https://www.jetbrains.com/idea/ (Recommended)

Then open the Java program you have already written in Activity 2 inside the IDE and try to compile and run it. Also, take some time and get yourself familiar with different panels inside the IDE and learn how to work with it for developing Java programs. You can ask your questions about working with the IDEs from the GA/TAs at the lab or during their office hours.