CSC 220 - Lab 5

Objective:

Write complete Java programs.

Java programs:

1. **Bits.** Write a program Bits.java that takes a command-line argument N and uses a while loop to compute the number of times you need to divide N by 2 until it is strictly less than 1. **Print out an error message if the integer N is negative.**

-		0	8 8
% java Bits	0	% java Bit	cs 8
% java Bits 1	1	% java Bit 5	cs 16
% java Bits 2	2	% java Bit	as 1000
% java Bits	4	% java Bit	

2. Design and implement an application named Swap.java that reads a string and two index values from the user, then swaps the characters with the specified index values, and save the resulting string in a variable. The program should have an input verification loop ensuring that the specified index values are within range, and a loop that asks users if they want to run the program again.

Compiling and running Java programs (reminder):

- Compile your programs using the command javac filename
 For example: javac myProgram.java
 If you receive errors during the compilation phase, re-edit the source code file and attempt to correct them.
- 2. Once a file successfully compiles, execute it using the java program. For example: java MyProgram

What to turn in:

- 1. JAR all your files, including *.java and *.class files into a file called Lab5.jar. When you're done, upload the JAR file to Canvas, under category Lab5.
- 2. If you do not complete the assignment before the end of the lab, you have until the deadline to complete the assignment and have your Jar file uploaded to Canvas. Canvas time rules! No extensions.

Hints:

Your work should be saved in a directory called Lab5 that you create in directory CSC220.