CSC171 — Homework 3

Iteration

The goal of this assignment is to give you practice using iteration (`while` and `for`) statements.

Your assignment is to write Java programs for each of the following tasks:

1. Write a program that asks the user for a number and then uses a `while` statement to print the first ten multiples of that number.

2. Rewrite your program to use a `for` statement.

3. Write a program that uses a loop to print every third number starting with 1 and ending before reaching 100.

4. Write a program that asks the user for a number, then uses a loop to count down from that number to 0, printing all the numbers from the user's number to 0 inclusive.

5. Write a program that reads numbers from the user until they enter the number 0, at which point it prints out the sum of the numbers they entered.

6. Write a program that reads words from the user until they enter the word "stop", at which point it prints out all the words they entered on one line separated by spaces. Use `String.equals` to test whether two `String`s are the same.

You may do this with separate classes, each with a `main` method, or as sections of one `main` method. Please make it clear what your code is doing, and use clear prompts for user input so the user knows what is expected.

Grading Scheme

Equal weight for each part.

Doesn't compile or is trivial	$< 50\%$
Compiles and is non-trivial	$\geq 50\%$
Complete and correct with good style and comments	100%
Incomplete, incorrect, bad style, no comments	$< 100\%$

Submission Requirements

Your submission **MUST** include a file named "`README.txt`" with your name, your NetID, the assignment number, and your lab section. This file should explain anything we need to know about how to build and run your project. In particular, be sure to explain how to run what parts of your submission for each question in the assignment.

Submit your solution as a single ZIP archive to BlackBoard before the deadline.

Late homeworks will not be graded and will receive a grade of 0.

All assignments and activities associated with this course must be performed in accordance with the University of Rochester's Academic Honesty Policy.