CSC171 — Homework 2

Conditionals

The goal of this assignment is to give you practice using conditional (`if`) statements.

Your assignment is to write separate Java programs (separate classes, each with a `main` method) for each of the following:

1. Write a program that declares an integer (`int`) variable named `secret` and sets it to some constant (literal) value. Then read an integer from the input and print "You're a winner!" if the value is equal to the secret.

2. Write a program that reads a number and reports whether or not it is a multiple of 5.

3. Write a program that reads a number from its input and outputs whether the number is positive, negative, or zero. Use proper `if-else` syntax to avoid repeating conditions and make the program as clear as possible.

4. Write a program that asks the user for their age, then uses the following table to decide what to say:

less than 13	You're just a kid
less than 20	You're a teenager!
less than 30	You're getting there...
30 or more	You must be wise.

5. Write a program that first asks the user to enter 1 if they want to discuss sports or 2 to discuss food. Then if they choose sports, ask if they play ice hockey. If so, output "Awesome!", otherwise output "You should try it some day." If they choose food, ask how many times they ate pizza last week. If it's more than five, tell them they need to eat better, otherwise tell them "OK."

Please make that we can tell what code is answering what question. If you use a single class, use comments in the code and appropriate prompts for user input. If you use multiple classes, make sure that their names make it clear what question they are addressing. Use your `README.txt` as needed to make all this clear.

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.