

CPSC 230: Computer Science I
Spring 2019
Programming Assignment 3: While Loops
Due: February 28, 2020 @ 11:59 pm

The Assignment

Now that we are all familiar with the while loops, let's get some practice before we move on. Sum.py and Con_Sum.py are required, Perfect_Square.py is additional practice but not required.

Sum.py: Write a python program that prompts the user for the how many numbers he/she would like to sum and then asks the user for each number and displays the sum.

Con_Sum.py: Write a program that prompts for an integer—let's call it x —and then finds the sum of x consecutive integers starting at 1. That is, if $x = 5$, you will find the sum of $1 + 2 + 3 + 4 + 5 = 15$.

Perfect_Square.py: Write a short program prompts the user for a number, print out whether the number is a perfect square, and prompts the user for another number if the number was not a perfect square.

A perfect square is a number that has a whole number square root. For example, 25 is a perfect square, because 5, is a whole number.

Due Date

This assignment is due at 11:59pm on 2-28-2020. Submit via Blackboard; create a zip file with all your files in it. It should be labeled firstinitiallastname_Assignment3. Please make sure to include all the required files (README, source files).

Grading

Assignments will be graded on correctness, adherence to style, and the inclusion of meaningful comments.