Assignment 2: Loops

Winter Code Camp DUE: December 28, 2020, 11:59PM

At the beginning of each python program, please include comments indicating your name and your student number

Example:

- # Animesh Sarker
- # 105184718

Please submit this assignment as a single zip file called FIRSTNAME LASTNAME assignment2.zip.

1. Write a python program that will grab a string from the user and output the string in reverse. [15 marks]

Sample input: Hello World! Sample output: !dlroW olleH

Save file as loopAssign1.py

2. Write a python program that will ask the user for a number n, and output the sum of the first n terms of the following infinite series: $\frac{1}{1} + \frac{1}{2} + \frac{1}{3} + ... + \frac{1}{n}$ [15 marks]

Sample input: 10

Sample output: 2.9289682539682538

Explanation: $\frac{1}{1} + \frac{1}{2} + \frac{1}{3} + \ldots + \frac{1}{10} = 2.9289682539682538$

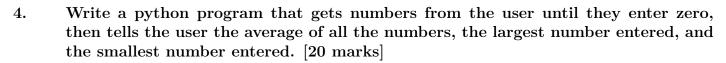
Save file as loopAssign2.py

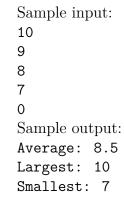
3. Write a python program that will get a string from the user. The program should output the string and remove extra spaces between each word. [20 marks]

Sample input: Python is the best!

Sample output: Python is the best!

Save file as loopAssign3.py





Save file as loopAssign4.py

5. Write a python program that will ask the user for a string. The program will output a hollow square with the entered string [30 marks]

Sample input: python Sample output: pythonp У 0 t h h t 0 У n pnohtyp Sample input: wpcc Sample output: wpccw р С С С р С мссри

Save file as loopAssign5.py