CSE 1321L: Programming and Problem Solving I Lab

Lab 5

Flow Control (Part 2)

What students will learn:

Using WHILE loops.
Using FOR loops.
Using Nested FOR loops.

Content

Overview

Lab5A: Largest of 10 Lab5B: The Box Lab5C: Say "please"

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FORd WHILE b . Miles

while <condition>: <body>

for <element> in <iterable>: <body>

haWHILE

Boolean to True o Stalings

when this by

Use a FOR loop when you want to repeat something a certain number of times. For examp

- If you want to repeat something 100 times.
- If you want to count from 50 to 3000 in increments of 10.

Use a WHILE loop when you do not know how many times something will repeat. For exar

• If you ask the user to enter a number between 1 to 10 and they consistently enter a higher number such as 45, then this loop could go on forever. Eventually, the user would enter a valid number.

Lab5A.py Lab5B.py Lab5C.py

Lab5A: Largest of 10

10 positive integer kn one

at a time

Requirements:

Lab5B: The Box

Cillabioglipion

GEOGRAPHICATION

SPECIAL SPEC

Requirements:

Your solution must use **Nested FOR** loops exclusively to print the shapes.

• You **CANNOT** use the multiplication operator * to repeatedly print a string. The user will enter a whole number for the size, there is no need to implement input validation.

After the size value has been read, the program should use the size value to print a box, a right-

After the size value has been read, the program should use the size value to print a box, a right-

facing right triangle, and a left-facfwu5 (t)u5 TT3-3.4 (a)-1.8il p-0.9)50.8s59c)3.2lp-0.9of (a)-1.8s59t)4.4 (e))22T3 15 l(e)4.2ng)-1.6th(a)-0.9nd)1.9w,)2l lid for t box-, a

right - facing 8x8 right-

This is the requested

Lab5C: Say "please"

Ben , ev lv et appla

Requirements:

Since we do not know $: \bullet \dot{U} \ 1 \ 1 \ 2 \dots \dot{U} \ e \ 1 \ 0 \ \dot{U} \ e \ \dot{U} + : : U \dot{U} \ \bullet \ + + \dot{U} \ \dot{U$

Your solution must implement a WHILE loop exclusively.

Keep asking 'If you would like to stop this program, say "plea'se":

Keep looping until the user enters "please".

The program should terminate if the user enters "please"

• The user input should be case-sensitive, meaning the input **must** be exactly "please" in all lowercase letters.

Sample Output #1

If you would like to stop this program, say "please": please Program complete

Sample Output #2

If you would like to stop this program, say "please": pLeAsE If you would like to stop this program, say "please": Please If you would like to stop this program, say "please": please Program complete

Sample Output #3

If you would like to stop this program, say "please": no
If you would like to stop this program, say "please": nah
If you would like to stop this program, say "please": nuh
If you would like to stop this program, say "please": ok fine
If you would like to stop this program, say "please": please
Program complete

Submission Instructions:

Programs must follow the output format provided. This includes each blank line, colons (:), and other symbols.

Programs must be working correctly.

Programs must be written in Python.

Programs must be submitted with the correct .py format.

- Lab5A.py
- Lab5B.py
- Lab5C.py

"X: $X \hat{1} \hat{U} \hat{u}$: $\hat{j} \hat{X} \hat{e} \hat{o} \hat{U} \hat{e}$: $\hat{i} \hat{o} \hat{U} \pm + \hat{o} \hat{v} \hat{U} \hat{1} \hat{j} \hat{e} \hat{U} \hat{\omega} \hat{o} \hat{U} \hat{j} \hat{U} + : \hat{i} \hat{i} \hat{o} \hat{i} \hat{U} \hat{e}$: $\hat{U} \hat{w} \hat{o} \hat{U} \hat{e} \hat{U} \hat{o} \hat{U} \hat{e}$