Day 6: Functions pt.2

Monday, 7.19.21

Agenda

- Daily check-in
  - Announcements
  - Emily will review the solution to the Lab 5 assignment
- Recap from last week
- Today we'll spend the day practicing the skills we learned last week by completing 3 labs from the Intro to CS course at Tufts, from scratch!

Daily check-in

Check in

- Questions? Thoughts from last week?

- Announcements
  - Make sure you have Canvas notifications set up for announcements
  - CAs' email addresses can be found on the homepage of Canvas
  - Today our Tech Trek (Google panel/Q&A) will be from **1 - 2pm EST**. Join through Sococo.
    - Direct link:
    - Make sure Google Meet works for you: https://meet.google.com/
    - You have a 1 hour break for lunch today, not 30 minutes
    - Afternoon Coding Lab will start directly afterwards at 2pm EST, in Zoom!

- Lab 5
  - Emily will go over the solution, please ask her questions

RECAP

What we've learned with Python so far

- Types (int, str, float, bool, lists)

- Controlling the flow of our programs using if/elif/else

- True or False comparison / logic statements using >, <, >=, <=, ==, !=

- How to manipulate Lists using append(), insert(), pop(), remove()

- Repeating code iteratively using loops (while loops, for loops)

- Writing our own functions

- Games & programs that can be written in Python
  - Calculator program, shopping cart program, number guessing game
  - Rock-Paper-Scissors against a bot, 2048 board game

- Check-in survey:
  - **Fill out until 11:25am (4 minutes)**

Post-survey thoughts

Anything I can review for you right now?

- Variables
- Types
- Conditionals
- Lists
- Loops
- Functions
- Or something else?

Office hours

If you need extra help with the labs, or want to go over your solutions, the CAs would love to help you during their office hours!

I'll be holding extra office hours this week to answer any other Python-related questions:

- <u>Each morning</u>: 10:00 - 10:30 am EST before daily check-in
- <u>Each evening</u>: 5:00 - 5:30 pm EST after skills-building module

Today: more practice with functions

Functions pt. 2

To practice the skills we've learned last week, together we'll complete 3 (small) assignments from the Tufts University "Introduction to Computer Science" course. These problems were given to students in the course directly after finishing the module on *Functions* in Python.

You can view part of the original assignment here: https://ashleysuh.github.io/comp11-example.html

- For an extra challenge after class, try completing the problems as requested from the text description on the website. For example, exercise 3 asks you to write the pattern program using recursion. If you know what recursion is already, try it out!

Follow along in Replit: Lecture-06

Live coding

After lecture, you will have a **1 HOUR BREAK** instead of 30 minute break.
The next module (Google Tech Trek / Panel) starts at **1pm EST** in **GOOGLE MEET**.
The afternoon Coding Lab will start at **2pm EST** **BACK IN ZOOM**.