Day 1 Handout

Course Details

- Syllabus
- Goals
- Honor Code

Download and install PyCharm CE

https://www.jetbrains.com/help/pycharm/installation-guide.html#standalone

Make sure you have git installed

If not, then you can install with instructions here:

https://git-scm.com/book/en/v2/Getting-Started-Installing-Git

Create GitHub Account

https://docs.github.com/en/education/explore-the-benefits-of-teaching-and-learning-with-github-education/github-global-campus-for-students/apply-to-github-global-campus-as-a-student

Connect your PyCharm and GitHub

https://www.jetbrains.com/help/pycharm/github.html

Create a new PyCharm Project

Go to PyCharm and Start a new project called 'CS570_Day_1'

Goals of this first project

- How to make a function using `def`
- How `__name__ == "__main__"` works
- How to run a program in PyCharm
- How to run the debugger in PyCharm

Python Glossary

- **def** - a keyword that indicates we are declaring a new program or procedure
- **class** - a keyword that indicates that we are making a class description of an object
- **return** - a keyword that tells python the final output of a program
- **for** - for loops
- [] - the indicators of a list, an ordered data structure

Learning git and GitHub

- git is helps us change code, but not loose something that works.
- it allows us to back track
- also keeps a record of our changes
- helps us collaborate on code - through branching
- GitHub is a distribution hub for the coders and the public

Git Glossary

- **commit** - a moment where your code is ready to share, and you have completed some goal
- **branch** - a version of the code that is working on particular changes. Either because they are the changes of one person or one issue
- **merge** - a way of bringing two branches together

- **pull request** - a way of asking for your changes to be merged into the main branch when working with a team
- **push** - a way of sending your changes to online repository

Homework