

Week 2 Exercise: Logic and Python - Introduction to Basic Data Types, Functions and Github

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Instructions

This assignment has two sections. The first section includes 5 short answer questions. The second part of the assignment is connecting through GitHub.

If you have any questions on how to start or if you get stuck, refer to the discussion board and ask your questions there. You are allowed to use your notes, lectures and the internet. Students can work together on the question portion and discuss the coding exercise. For the coding exercise, you are allowed to talk to other classmates but you cannot have the same code.

Once complete, please save your assignment as a PDF and submit it both to the online course [and tag](#) your instructor on Github.

Short Answer (1 point each)

1. In your own words, explain what you believe Git is:

A Git is a collective directory of functions which allows users to manage, archive, and edit their respective files in any given state.

2. What are the basic usages of Git?

Basic usages of Git include setting up a repository with a username for yourself, constructing as well as adding new files into your personalized directory, and “committing changes” to the states of your archived files.

3. What are the disadvantages of GitHub?

Some disadvantages of GitHub are its lack of a central server with a concrete repository version, developers oftentimes being forced to utilize it as a central repository for all of them to collectively extract their files from, and files ending up becoming “locked” as a result of a vast multitude of commit statements being stored under one concurrently existing repository.

4. What security features does GitHub offer?

Security features offered by GitHub include scanning coding text written by users for errors as well as potential security threats, tracking additional items that may have been transferred into the users' directories, and revealing the full extent of committed changes that were made across all existing and pre-existing versions of any particular repository.

Coding Exercise (6 points)

Please set up with Github. Github will be our way to send files during the course and for your instructor to give you specific feedback on assignments. Please note, you are still required to submit your assignments in the online course in addition to Github.

This is a quick overview of what you will be doing:

1. Generate SSH Key
2. Add SSH Key to GitHub.com
3. Configure some git settings
4. Fork the class repository on GitHub
5. Connect to the class repository

Instructions:

Please go to this link and follow the instructions:

<https://product.hubspot.com/blog/git-and-github-tutorial-for-beginners>

You can also take a look at the PDF version of the instructions:

[PDF version](#)

Once you have completed this portion of the assignment, **your instructor will send you a message through GitHub to confirm you are connected.**