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: **Git is a platform used to store versions of files that can be retrieved and restored if needed. This is helpful in determining bugs in the programming. It also acts as a cloud service to share files with others working in collaboration.**

2. What are the basic usages of Git? **Creating a new Repo; Adding a new file; Committing changes**

3. What are the disadvantages of GitHub? **Security; Binary files are stored on every commit; GitHub does not have a central server that has the definitive version of the repository**

4. What security features does GitHub offer? **Security policy; Security advisories; dependabot alerts; Code scanning alerts**

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:

ttps://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.**