

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

Name:

### 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:

***I believe Git is like a created file saving system that allows users to save files at any point in the process, and also create notes for the changes that have been made to the file. With Git you can also have access to older versions of the file and see the changes that were made at an older date.***

2. What are the basic usages of Git?

***Git is basically used for creating and storing new repositories kind of like a folder. This Folder then records the information about this folder like when, and what kind of changes have taken place with it.***

3. What are the disadvantages of GitHub?

***The drawback of GitHub is the security aspect. GitHub has been susceptible to security breaches in the past and is constantly targeted.***

4. What security features does GitHub offer?

**GitHub offers bcrypt which is a security encryption tool to protect all accounts at the login section. They also offer a Security incident response which is a team of experts to help investigate any breaches, Proactive threat detection, and a Security system that learns from past security incidents.**

## 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:

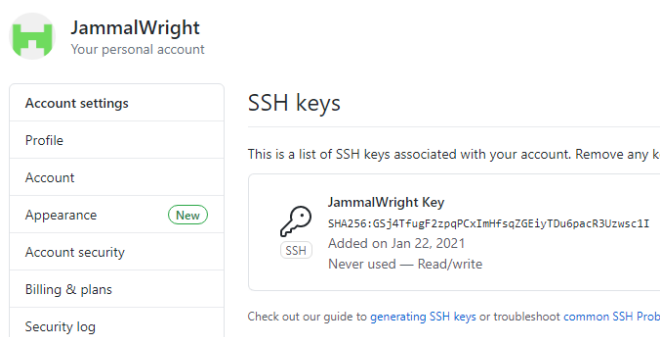
### 1. Generate SSH Key

```
Command Prompt
C:\Users\Owner\.git>cd JammalWright:
The filename, directory name, or volume label syntax is incorrect.

C:\Users\Owner\.git>ssh keygen
ssh: Could not resolve hostname keygen: No such host is known.

C:\Users\Owner\.git>ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\Owner\.ssh\id_rsa):
Created directory 'C:\Users\Owner\.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\Owner\.ssh\id_rsa.
Your public key has been saved in C:\Users\Owner\.ssh\id_rsa.pub.
The key fingerprint is:
SHA256:GSj4TfugF2zpqPCxImHfsqZGEiyTDu6pacR3Uzwsc1I owner@DESKTOP-T8QHPHN
The key's randomart image is:
+---[RSA 2048]-----+
|
| . E
| .. . *
| * . . O O o
| *o . # S
| oB . B +
| B . = + .
| oO B o
| Bo*.o
+---[SHA256]-----+
```

### 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.**