**Markdown format needed**

**Below probably has a lot of missing info (line numbers may not be relevant/variable)**

**ADquery.py Documentation**

Line 1

Imported pyad, numpy, pyadutil and datetime

Line 6

Class ADquery created

Tracks number of unused computers and unused user count

Variables:

unusedComputerCount - a count of the unused computers

unusedUserCount - a count of the unused users

unusedUsers - an array of the unused users

unusedComputers - an array of the unused computers

Line 12

constructor

Objects are created here

With this setup pyad checks the OS and makes sure you are already joined to the domain as a valid administrator user

**CN - Common Name** - tracks user and pyad connection to active directory

Profile is retrieved using Common Name

Makes sure that connection is actually happening

Line 19

Method for Setter Method for setCN

No getter needed in python

All set methods are required

Line 26

Method for **Get last login users**

Find when they last logged in

Can feed array as parameter

Line 32

**Get last user login list**

Takes in a distinguished name list

Looks at the distinguished name that it last looked at

Object category is the group of specific users that you want to query about

makes sure that have actually logged on before

Line 58

After get specific category, look at the specific login

And look at the number of past login days

Good for reuse capability

Getting list of which users and/or computers that have not logged in in N days

Line 80

**get report** method

To string method prints out all info

List of Unused users, computers

counts for Unused users, computers

End of class so far

**Active\_Directory\_ARA.py Documentation**

Script

Line 1

Import ADquery class

So can use functions from that class

Imported os to gather variables from bash script

Line 7

Takes info from ADquery class

Generates report based on users that have not logged in N number of days

Line 25

Import os variables plug into arrays based on variable types

Line 37

Get number of days since last login

**Ad\_driver.sh Documentation**

Stores OS variables

Executes active\_directory\_ARA.py

**Later activities**

In bash directory made bash file executable

So it can be simply run through Gitbash

(Bash terminal of choice)