Testing SSH connectivity using Password and Key based auth

Testing SSH connectivity using Password:

Tools used: Python, Mac, Paramiko library

Setup:

- Assuming remote host server is set up with username and password
- SSH is enabled in terminal
- Paramiko library installed with pip3
- Logged into remote host server to get public key

Python script:

Create a function:
- Create paramiko SSH client object
- Use client to load and verify host keys
- Use client to connect remote host server with username and password
- Use paramiko client exec command method to execute Linux commands like ls to view directory of remote host server
- Grab response values from stdout and manipulate data like assertion to test connectivity
- Print out results to terminal
- Exit with sys

Testing SSH connectivity using Key based auth:

Similar to Password but in Setup:

- Create ssh key pair with terminal cmd ssh-keygen
- Send SSH public key to server with ssh-copy-id

In Python script:

- We don't need to supply password when using paramiko client object to connect to remote host server