# Intro to Programming (Python)

Assignment 01

## Overview

In this activity, you will learn about creating python script files to perform basic automations.

This assignment will include the following:

1. Watch the Module Videos.
2. Review the following web pages.
3. Watch the following videos.
4. Apply your knowledge.
5. Document your knowledge.
6. Submit your work.

We are trying to answer the following questions:

1. How is python used?
2. What are some differences between python and operating system shell scripting?
3. How do you run a python script from your desktop?
4. How do you run a python script from a command shell?
5. What is a console application?
6. What is a python script?
7. How do you know if python is working?
8. Does the python code look different on different operating systems?

## Step 1- Watch the Module Videos

Please watch the following videos:

* Mod01-1-Module01 Overview
* Mod01-2-What Is Python
* Mod01-3-Console Applications
* Mod01-4-Programming Basics
* Mod01-5-Comments
* Mod01-6-Case Sensitivity
* Mod01-7-Functions
* Mod01-8-Chapter1 Review
* Mod01-9-Lab1 Starter
* Mod01-10-Lab1 Answer
* Mod01-11-Assignment01 Starter

All these can be found on my YouTube channel:

<https://www.youtube.com/playlist?list=PLfycUyp06LG9OVfidlxwfjz7JYRhq83PN> (Links to an external site)

## Step 2 - Review the following web pages

Please review the following web pages:

1. <http://www.computerhope.com/jargon/m/msdos.htm> (Links to an external site)
2. <http://www.computerhope.com/issues/ch000619.htm> (Links to an external site)
3. <http://www.computerhope.com/batch.htm> (Links to an external site)

## Step 3 - Watch the following videos

1. Introduction to Batch files <https://youtu.be/rhV4L3T3BMc> (Links to an external site)
2. Introduction to Bash files <https://youtu.be/nZqi3BqqeqI> (Links to an external site)

## Step 4 - Apply your knowledge

Now that you have reviewed the websites and videos, try to do the following tasks.

1. **Create** a new batch (or bash) file that launches Python.exe and passes the path to a python script file.
2. **Create** a python script file called test.py
3. **Add** the following code:

input("It is working if it pauses for input!")

1. **Save** the file in a folder called c:\\_PythonClass.
2. **Create** a batch file called RunTestScript.bat.
3. **Add** the following code:

**For a PC it should look something like this...**

cd C:\Python32 🡨 ***Note you will have to change the path***

start python.exe c:\\_PythonClass\test.py

pause

**For a Mac it should look something like this...**

#!/bin/sh

python test.py

1. **Test** your batch file.

Notes:

* Mac comes with Python 2 already installed, but I recommend, uninstalling 2.x and then installing 3.x. <https://docs.python.org/3/using/mac.html>
* Mac users may want to check out this video on running scripts <https://www.youtube.com/watch?v=BE1wDsLzOJA>

## Step 5 - Document your knowledge

After you have practiced creating a batch file that launches python, create a document describing the steps you took in performing this assignment.

**NOTE**: *Make sure you put it in proper, college level, formatting! It does not have to be perfect, but if you turn in a simple blob of text, you will not get credit for it! Here is a link that may help you understand what I am looking for. At a minimum look at the pictures.*

<http://jerz.setonhill.edu/writing/academic1/mla-style-papers/>

You have been warned!

## Step 6 - Submit your work

Now **place** your document, batch or bash file, python script into a single folder. Zip this folder into a file, then **upload** the file to the class assignment page.

***You are done!***