# Intro to Programming (Python)

Assignment 02

## Overview

In this activity, you will learn about built-in functions and operators; what they are and how you use them. You will also learn how to create your own demonstration scripts and document your knowledge.

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:

* Mod02-1-Module 02 Overview
* Mod02-2-What is Data?
* Mod02-3-Declaring Constants and Variables
* Mod02-4-Assigning Values
* Mod02-5-Choosing Data Types
* Mod02-6-Escape Characters
* Mod02-7-Line Continuation Character
* Mod02-8-Overloaded Methods
* Mod02-9-Concatenation
* Mod02-10-Operational Constructs
* Mod02-11-Lab 2-1 Starter
* Mod02-12-Lab 2-1 Answer
* Mod02-13-Value vs. Reference Types
* Mod02-14-Chapter 02 Review
* Mod02-15-Assignment 02 Starter
* Python Mod02-16 What is Next

All these can be found on my YouTube channel:

<https://www.youtube.com/playlist?list=PLfycUyp06LG_Ui56yzznsHhfEosKZSahX> (Links to an external site)

## Step 2 - Review the following web pages

Please review the following web pages:

1. <http://www.learnpython.org/en/Variables_and_Types>(Links to an external site)
2. <http://www.learnpython.org/en/Basic_Operators>(Links to an external site)

## Step 3 - Watch the following videos

To give you a different video perspective, please watch the following videos

* Variables - <http://www.youtube.com/watch?v=667ZeuZ0Q8M>(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:

* **Create** a new program that asks the user to input 2 numbers then prints out the sum, difference, product, and quotient.

## Step 5 - Document your knowledge

You have now created a simple python script that uses variables and you have also seen how others have documented doing the same or similar task. Please **create** a simple document that outlines the steps you took in performing this assignment. Use screenshots and code sample to explain the process, just as was done in your book, my programming notes, and the web pages you reviewed. Make sure the document is in a Microsoft Word document (.doc or .docx).

**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/> (Links to an external site)

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!***