## **Unit 1** – Python language basics, introducing data types, variables, input, functions, operators, conditional statements, loops, and incrementing.

### **Module** 1 – Python Basics

**Input**

* Input() – gathering user input
* Print() formatting
* Quotes inside strings
* Boolean String tests methods
* String formatting methods
* Formatting string input()
* Boolean ***in*** keyword

**Students will be able to:**

* Gather, store and use string input()
* Format print() output
* Test string characters
* Format string output
* Search for a string in a string

# Activity 7 – Print Formatting

1. Enter a comment to begin Unit 1, Module 1, Activity 7: **U1\_M1\_A7**
2. View this video: [Comma Print Formatting, Video #1](http://edxinteractivepage.blob.core.windows.net/edxpages/f7cff1a7-5601-48a1-95a6-fd1fdfabd20e.html?details=%5b%7b%22src%22:%22http://jupyternootbookwams.streaming.mediaservices.windows.net/ac97f001-e639-494e-aa15-e420efb5a7a8/Unit1_Section2-2-Print-Comma_Format.ism/manifest%22,%22type%22:%22application/vnd.ms-sstr+xml%22%7d%5d,%5b%7b%22src%22:%22http://jupyternootbookwams.streaming.mediaservices.windows.net/ac97f001-e639-494e-aa15-e420efb5a7a8/Unit1_Section2-2-Print-Comma_Format.vtt%22,%22srclang%22:%22en%22,%22kind%22:%22subtitles%22,%22label%22:%22english%22%7d%5d)

**Concept:** print() formatting of strings can be done several ways: the + and the , are two ways. print() provides using commas to combine strings for output. Using a comma-separating string with print() will output each object separated by a space, by default. If you are combining integer or float with strings you should use the , to avoid errors.

Example: the following code will print 3 strings on the same line using commas inside the print() function.

Code: name = Sam print(“Hello to”, name, “who is from the Big Apple.”)

Output: Hello to Sam who is from the Big Apple.

1. View this video: [Commas with Strings-Numbers, Video #2](http://edxinteractivepage.blob.core.windows.net/edxpages/f7cff1a7-5601-48a1-95a6-fd1fdfabd20e.html?details=%5b%7b%22src%22:%22http://jupyternootbookwams.streaming.mediaservices.windows.net/46b436d7-31ed-4e9a-a4c9-55f9eaacfb84/Unit1_Section2-2-Print-String_Number.ism/manifest%22,%22type%22:%22application/vnd.ms-sstr+xml%22%7d%5d,%5b%7b%22src%22:%22http://jupyternootbookwams.streaming.mediaservices.windows.net/46b436d7-31ed-4e9a-a4c9-55f9eaacfb84/Unit1_Section2-2-Print-String_Number.vtt%22,%22srclang%22:%22en%22,%22kind%22:%22subtitles%22,%22label%22:%22english%22%7d%5d)
2. Print integers and strings on the same line using commas inside the print() function. Use the following: NumberErrors = 0, string literals: “An Integer of” and 14 and “combined with strings causes” and NumberErrors and “TypeErrors in comma formatted print!”.

Example of output: An Integer of 14 combined with strings causes 0 TypeErrors in comma formatted print!

1. Use print() function with commas to combine 2 integers and 2 strings. Combine the following to make a sentence. Strings: “I had” ***,*** “eggs” ***,*** “pieces of bacon for breakfast.” ***,*** 4 ***,*** 2.

Example of output: I had 4 eggs and 2 pieces of bacon for breakfast.

1. Display your street address. Initialize 3 variables: name = (use your name) ***,*** street = (use your street name) ***,*** stNumber = (use your street number). Using commas, display a message using these three variables and a string. Example Output: Juan lives at 1122 Union Avenue.
2. Display a sentence combining a variable, a literal string and a number, using comma’s. i.e: variable: Animal=bears and “Look, there are” and 3.

Example of output: Look, there are 3 bears!

1. Write the code to assign the variables for a program that prints out a reservations for a training class. You can make up your own information for the inputs:

event (enter the event name)

time (enter the event time)

name (enter the name of the speaker)

groupNum (enter the number of people in your group)

minEarly (“How many minutes early do you want everyone to arrive?”)

Output Example:

REMINDER: Training is scheduled at 3:35 PM for the Grace Hopper group of 700 attendees. Please arrive 15 minutes early for the first class.

1. Thoroughly test your code, check comments and then submit according to teacher instructions.
2. Take the activity quiz.