Lesson 1.03: Script Mode and Variables

# Learning Objectives

Students will be able to…

* Define and identify: Script, print, run, output, variable
* Write a simple script and run it in IDE
* Print values out to the console (composed values and from variables)
* Compare script mode vs interactive mode
* Know how to store a value into a variable

# Materials/Preparation

* Worksheet Handout
* Read through the handout so that you are familiar with the requirements and can assist students

# Pacing Guide

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| Duration | Description |
| 5 Minutes | Intro Worksheet |
| 10 Minutes | Lesson about printing |
| 15 Minutes | Working on printing and variable lead up worksheet |
| 15 minutes | Variable intro and updating worksheet |
| 10 Minutes | Discussion |

# Instructor’s Notes

1. Present or Handout Intro Worksheet
   1. Call students back to focus after 5 minutes
2. Printing Discussion
   1. File is the white section of the screen. Sometimes this is called a script. Can save and run. How do you save/run?
   2. What happened when you used one line?
      1. When text appears on console it’s called output
   3. What happened when you used multi-lines?
      1. To get it to output multi lines. Use the print function.
      2. Display a basic print function.
         1. Print(“hello world”). Ask where this will print. Show students can print two things from one file.
3. Have students work on the second part of the worksheet
   1. Discuss the results of the print statements. Any surprises.
   2. Note that when using the print statement values are sent to the console and displayed
   3. Discuss the changing from cats to dogs?
      1. What was annoying about that.
      2. What would we like to have?
4. Introduce concept of variables.
   1. Variables store a value. How might we want to use them in the written example.
   2. Have students re write the program with a single variable called pet.
5. Debrief
   1. Talk about the difference between the two modes. Why might you want to use the interpreted mode (can be faster to debug a single line and make sure it works)
6. Opportunities for growth:
   1. Ask students to come up with a way to print two lines with only one print statement. Allow for googling.