**805 Technology: Course Review Guide**

**Objectives**:

Mission 1: Cloud Storage

1. Distinguish local file storage from cloud storage and identify Google Drive as software that enables shared cloud storage of files.
2. Identify Microsoft Word and Google Docs as two examples of word processing software.

Mission 2: First Program

1. Distinguish operating system software (OS) from application software.
2. Identify Chrome OS and UNIX as operating systems.
3. Identify Python as a programing language and Idle as a programing environment.
4. Analyze code to determine the output, using the **print** function.

Mission 3: Inputs and Outputs (variable types)

1. Distinguish float, integer, and string variables.
2. Analyze code to determine the output, using variable types, the **input** function, and the math functions +, -, \*, /.

Mission 4: Simple Calculator (if, elif, else)

1. Analyze code to determine the output using **if**, **elif** and **else** cases.
2. Write code that responds to user input using if, elif, and else cases.

Mission 5: Loop Calculator (defining and calling functions)

1. Analyze code that includes the **def** function to define a custom function and call that function to determine the output.
2. Analyze code that uses the def function in combination with if, elif, and else cases to produce a loop to determine the output.

Mission 6: Modular Programing (calling functions into scripts)

1. Analyze multiple code files that include function calls to determine the output.

Mission 7: Story Program

1. Analyze code that includes the **import** function (including import \*) to determine output.

Syntax

1. Identify and/or use proper syntax for the following Python functions:
   1. print
   2. input
   3. if, elif, else
   4. def (and how to call)
   5. import

**Practice – Part 1**

Consider the following code:

a = 10

b = 2

Write a line of code that will print the value of a + b: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write a line of code that allows the user to input a value for an **integer** variable c:

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Write a line of code that will print the value of a + b + c: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write 6 lines of code that will print “a equals c” if a and c are the same, “b equals c” if b and c are the same, and “c is unique” if c does not equal a or b.

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Write a line of code that uses the input function to set the user’s name as a string variable:

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Write a line of code that prints the statement “Hello, [username].” [username] is the variable from the previous example.

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Consider the following code:

a = “spam”

b = “eggs”

What is the output of:

print (a,b) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

print (a, “and”, b) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

print (“a+b is delicious”) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_