**Assignment 0 – Programming Test**

**Assigned:** Monday, August 27, 2018

**Due:** Friday, August 31, 2018 11:59 pm

**Overview**

This assignment is a means for us to understand and assess your prior experience with programming and programming concepts. You should fill in the questions that follow.

This is an **individual** assignment.

This assignment is **closed book**, **closed browser**, **closed notes**, etc. which means that the only source of information you may rely on is your brain.

**How to Submit**

* Add your answers into this document, and upload a .doc, .docx, or .pdf document to Canvas by the due date/time (see above).

**Answer each of the following questions in the space provided.**

1. (2 pts) In one sentence define what a **variable** is.

A variable is a location with a declared name and a known or unknown value stored in it.

1. (3 pts) In a language that you prefer or in pseudocode, declare three variables each of a different data type. Assign a value of your choice to each of the variables.

a = 3

b = “Hello World”

c = True

1. (1 pts) What is the value of **myPick**? (Assume zero-based numbering)

var fruits = [“Apple”, “Banana”, “Orange”]

var myPick = fruits[1]

“Banana”

1. (2 pts) Using the array above, in a language that you prefer or in pseudocode, change the value of “**Orange**” to “**Watermelon**”. (Assume zero-based numbering)

Fruits[2] = “Watermelon”

1. (9 pts) Write a function/method (in a language that you prefer or in pseudocode) ***multiple()*** which prints the numbers from 1 to 27. For multiples of three, print "Three!" instead of the number.

def multiple():

for i in range (1, 28):

if i % 3 == 0:

print(“Three!”)

else:

print(i)

return None

1. (5 pts) Write a function/method (in a language that you prefer or in pseudocode) ***biggerNumber(a,b)*** that returns the biggest of two given numbers (or any of the two numbers if they are equal).

def biggerNumber(a,b):

if a > b:

return a

else:

return b

1. (2 pts) What will the following code print? Explain why.

x = 27  
if (x < 0)

print Negative changed to zero)

else if (x > 0)

print(Greater than zero)

else if (x == 27)

print(My birthday!!)

else

print(Not found)

“Greater than zero”

Among a number of conditions in ‘if, else if, else’ commands, only statements that meet the first condition are executed. Although there are other following met conditions, they are not executed because it already met a statement ahead.

1. (2 pts) What will the following code print?

myAge = ""

for (i = 0; i < 9; i++) {

myAge = myAge + i

}

print(myAge)

“012345678”