1. Explain in a few sentences the differences between properties and methods in Python.

Methods are the functions that belongs to python objects and can pass parameters to do the work.

Properties of python objects has three basic methods: getter(), setter(), and delete() which can be read or write.

1. Look at the following statements below and indicate if each one is a property or method and **why**.

a. arcpy.env.overwriteOutput = True

Property, because overwriteOutput is not a function that return or change objects.

b. arcpy.SearchCursor(“roads”, “TYPE” <> 4’)

Method, because it filtered and searched roads objects.

c. row.setValue(‘distance’,100)

Method, because it sets the values.

d. ArcGISProject.dateSaved

Property, because it is a read-only property and return files.

e. Table.isBroken

Property, because isBroken is not followed with ().

1. Review the following function and explain what you think is happening. Are parameters being passed into the function? If so, what’re their data types? Write what you think the output of the function would be if it were invoked/called.

def letterFunc (wordParam1, wordParam2):

if (wordParam1[0].lower() == wordParam2[0].lower()):

return True

else:

return False

This function has been created with name letterFunc. It has two inputs wordParam1 and wordParam2. The if else statement tests whether two inputs have the same first character regardless of letter case. This function also restrict inputs’ datatype as string. After invoking this function, True or False will be returned but will not be printed unless user uses print() method.

However, this function has not been called with input values which mean no parameters are passed into the function until it has been invoked.

1. Write a function definition which satisfies the following requirements:

a. Accepts a list of names as a parameter

b. Prints ‘Happy Birthday’ to each person

def happyBirthday(nameList):

for x in nameList:

print('Happy Birthday ' + x + '!')

names = ['Zoe', 'Lauren','Paul']

happyBirthday(names)