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**GIS610 Exercise 3**

1. Explain in a few sentences the differences between properties and methods in Python.
2. All methods are functions and associated with an object while properties shows properties the object has and if properties are read/write. Method refers to a function but not functions are methods. Property is used for managing attribute access.
3. Look at the following statements below and indicate if each one is a property or method and **why**.
   1. arcpy.env.overwriteOutput = True (property, this code is setting the environment in python and geoprocessing environments are organized as properties under the ArcPy class env. )
   2. arcpy.SearchCursor(“roads”, “TYPE” <> 4’) (method, the road is being searched by type)
   3. row.setValue(‘distance’,100) (method, the attribute value is being set or updated)
   4. ArcGISProject.dateSaved (property, the code returns a python datetime object that reports the project’s last saved date)
   5. Table.isBroken (property, this code isn’t preforming a function)
4. 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

1. The code is defining a task using if/else statements in which the “if” portion of the list data type index value zero is lower case of wordParam1 compared to wordParam2 then a true value will be returned. If this is not true than a false value will be returned. If this was invoked a true will be returned.
2. Write a function definition which satisfies the following requirements:
   1. Accepts a list of names as a parameter
   2. Prints ‘Happy Birthday’ to each person
3. def happybirthday(name1,name2,name3):
4. nameList = [name1,name2,name3]
5. for n in nameList:
6. print( n + "Happy Birthday")
7. happybirthday( 'JIM','JOHN','MATT')

11) Create a Github repository. Push the .py files that contain your answers for questions 1-10 Paste the link to your public repository as your answer to this question.