**Writeup describing what I learned during this project and how I approached the problem**

I approached the problem first by writing out my flowchart and investigating with help from ArcGIS Desk help for some syntaxes. I also used past Python codes we used on projects and code reviews to understand what I am telling the computer to do. I learned how to organize my thoughts to the script after redoing my flowchart a couple of times to make sense of my python script to the flowchart. After I finished typing up my Python code to the best of my abilities I created a scripting tool inside the toolbox I made in ArcGIS. The real challenge for this project was getting the code to work properly without using the hard code and correcting other small errors in my python codes such as parenthesis, quotations, and connecting to the right arcpy tools to use in this project. I also looked through some examples in the two books for the class for help.

I learned how to create a script tool and the parameters inside. I learned how to adjust the fields and adjusting the properties of the script. I learned how as well to embed the python script I created outside of ArcGIS to use later as tool inside ArcGIS. I learned how to use for loops as well as if and else statements inside the for loop. I learned how to correlate using arcpy codes within the python script is another challenge of its own. I learned that the script tool inside the toolbox is kind of similar in ways to the Model Builder such as the properties dialog box and different in other since it is more for visualization purposes. I still have some work to do to fully understand the tie between the arcpy tools within python, but it’s a start. Even though I have done the script to the best of my abilities there is always room for improvement for the script for others and myself to use in the future.