# Lab 0: Using ArcPy to Perform an Identical Buffer Fuction as a GUI

#### Introduction

The purpose of this Notebook is to perform the buffer tool on a Vector Shapefile to produce an identical output. First, I will set up the environment. Then, I will use python code to call and use the buffer too. The output will be "SNA\_Buff\_Arcpy". If it worked correctly, The results can be seen in Arc Pro GUI.

### **Environment Setup**

The following cells will be used to import arcpy and setup the environment.

```
In [1]: import arcpy #importing ArcPY
In [2]: arcpy.env.workspace = 'D:/Users/Owner/Documents/ArcGIS/Projects/ROSEL_L
ab0/ROSEL_Lab0.gdb' #Setting up environment to the geodatabase
```

#### Checking to see if it worked

# **Running the Buffer Tool**

This next cell will run the buffer tool. The input will be 'scientific\_and\_natural\_area\_boundaries.shp'. The output data will be "SNABuff\_arcpy" and the buffer distance will be 5 miles.

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```
In [5]: arcpy.Buffer_analysis('scientific_and_natural_area_boundaries.shp', 'SN ABuff_arcpy', '5 Miles') #input, Output, Buffer Distance, and all the r est are kept to the defaults.
```

#### Out[5]:

## **Output**

D:/Users/Owner/Documents/ArcGIS/Projects/ROSEL\_Lab0/ROSEL\_Lab0.gdb\SNABuff\_arcpy

# Messages

Start Time: Monday, January 25, 2021 1:36:21 PM Succeeded at Monday, January 25, 2021 1:36:21 PM (Elapsed Time: 0.79 seconds)

It worked, I can see "SNABuff\_arcpy" on the computer and it looks exactly the same as "SNABuff". This concludes the notebook

```
In [ ]:
```

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