**Project 4 Pseudo code**

Set the import modules

Set the variables

Read the csv for the Rhino Observations

Make a dictionary for csv

Make a for loop for dictionary

Make an if and else statement

Create a Spatial Reference

CreateSpatialReference\_management ({spatial\_reference}, {spatial\_reference\_template}, {xy\_domain},

{z\_domain}, {m\_domain},{template}, {expand\_ratio})

Create a Shapefile (created one in ArcMAP to see what it would look like)

CreateFeatureclass\_management (out\_path, out\_name, {geometry\_type}, {template}, {has\_m}, {has\_z},

{spatial\_reference},{config\_keyword}, {spatial\_grid\_1}, {spatial\_grid\_2}, {spatial\_grid\_3})

Insert fields for x, y and rhinos

AddField\_management (in\_table, field\_name, field\_type)

Create insert cursor to insert into the shapefile

Use arcpy.da.InsertCursor

Make a for loop for each rhino in the dictionary

Create a polyline of the coordinate pairs for rhinos

Make an if statement to cancel out name called Rhino

if rhinos != "Rhino":

Make the polyline

polyline = arcpy.Polyline(arcpy.Array([arcpy.Point(\*coords) for coords in csv\_dict[rhinos]]))

Insert the polyline and rhino name into shapefile

Del the row (rhino) and cursor