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# GEOG 411 Lab 2
# 19 April 2021
# Written by Kyle Kasparek

# Import arcpy
import arcpy

# Override previous output (allows for the repeated execution of the script)
arcpy.env.overwriteOutput = True

# Set root directory -- change this to the directory containing the tool_lab
rootDirectory = "C:\\Users\\Kyle-VM\\Documents\\GEOG411\\"

# Set folders and workspace
rootFolder = rootDirectory + "tool_lab\\"
roadsInput = rootFolder + "roads.shp"
extentInput = rootFolder + "extent.shp"
privatelandInput = rootFolder + "priv_land.shp"
arcpy.env.workspace = rootFolder
fcList = arcpy.ListFeatureClasses()

# Buffer the roads and clip to boundary area
buffer_distance = "0.2 Miles"
buffer_output = rootFolder + "roads_buffered.shp"
dissolve = "ALL"
arcpy.Buffer_analysis(roadsInput, buffer_output, buffer_distance, "", "", dissolve)

# Clip the newly buffered roads file to the study area boundary and overrides the original
road_clip_output = rootFolder + "road_buffer_clipped.shp"
arcpy.Clip_analysis(buffer_output, extentInput, road_clip_output)

# Erase private land from the clipped road buffer produced above
roads_minus_private_land = rootFolder + "roads_minus_private_land.shp"
arcpy.Erase_analysis(road_clip_output, privatelandInput, roads_minus_private_land)

# Set workspace for the final step to the BirdHabitats.gdb
workspace = rootFolder + "BirdHabitats.gdb"
arcpy.env.workspace = workspace
datasetList = arcpy.ListFeatureClasses()

# Clip each of the files in the BirdHabitats geodatabase (gdb) to the
roads_minus_private_land file
for dataset in datasetList:
    output = dataset.replace("Habitat", "clipped_Habitat")
    arcpy.Clip_analysis(dataset, roads_minus_private_land, output)
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