Module 01, 02, 03 Review Exercise

Instructions

Develop a stand-alone script that can complete the following:

- Ensure that outputs can be overwritten
- List and print all the features within the geodatabase
- Iterate through the workspace and describe the geometry type and spatial reference of each feature class
- Buffer the “streets” feature class at a distance of 20 meters. Make sure that the output buffer retains the original feature class name with “_Buffer” appended to it. Ex: “Streets_Buffer”
    - Ensure you dissolve the output buffer into one feature
- Get a total count of all the “addresspts” features and print to the interpreter
- Select by location all the “addresspts” that intersect the buffered streets
- Return a count of all the selected features
- Create a new permanent feature class from the selection called “Streets_Address”
    - Print the “FULL_NAME” and “SUBDIVSIO” to the interpreter of each feature in the newly created feature class above
- Create a new field in the “Streets_Address” feature class called “APPROVAL” and populate the newly created field with the following criteria:
    - If the “STREET_TYP” is equal to ST, populate the new field with “Approved”
    - If the “STREET_TYP” is equal to BLVD, populate the new field with “Pending”
    - If the “STREET_TYP” is equal to LN, populate the new field with “Not Approved”
    - If the “STREET_TYP” is equal to DR, populate the new field with “Not Applicable”
    - All other “STREET_TYP”, populate the new field with “Unknown”
- Print the “FULL_NAME”, “APPROVAL” to the interpreter with the following format example:
    - Address: 6807 MIRANDA DR, Approval Status: “Not Applicable”

The script must produce the last message for each tool function. Print statements must also be used for all non-tool functions.