In [1]:
```
import os, zipfile, fnmatch
from zipp import zipfile as zp
import arcpy

rootPath = r'D:\Cloud_Drive\Dropbox (Hunter College)\Teaching\GTECH_73100\GTECH_731_20

for root, dirs, files in os.walk(rootPath, topdown=True):
   for name in files:
      print(os.path.join(root, name))
   for name in dirs:
      print(os.path.join(root, name))
```

In [2]:
```
for root, dirs, files in os.walk(rootPath, topdown=True):
   for name in fnmatch.filter(files, '*.zip'):
      print(os.path.join(root, name))
   for name in dirs:
      print(os.path.join(root, name))
```

In [3]:
```
for root, dirs, files in os.walk(rootPath, topdown=True):
   for name in fnmatch.filter(files, '*.zip'):
      print(os.path.join(root, os.path.splitext(name)[0]))
      zp.ZipFile(os.path.join(root, name)).extractall(os.path.join(root, os.path.split
```

In [19]:
```
# Add unzipped Shapefile into the current Map
# I wiil use the ArcGIS Mapping module - arcpy.mp
```

In [20]:
```
# Arcpy.mp is a Python submodule that is part of the ArcPy site package.
# It is installed with ArcGIS Pro and is available to all licenses.
# It was designed primarily to manipulate the contents of existing projects (.aprx) an
```

In [21]:
```
# This is our current project
aprx = arcpy.mp.ArcGISProject("CURRENT")
```

In [22]:
```
print(aprx.filePath)
print(aprx.defaultGeodatabase)
```

```
C:\Users\Nikola\Desktop\script_tool\script_tool.aprx
C:\Users\Nikola\Desktop\script_tool\script_tool.gdb
```

In [23]:
```
for root, dirs, files in os.walk(rootPath, topdown=True):
   for name in fnmatch.filter(files, '*.shp'):
      print(os.path.join(root, name))
      arcpy.management.MakeFeatureLayer(os.path.join(root, name), os.path.splitext(nam
```

In [32]:
```
featureClassName = r"D:\Cloud_Drive\Dropbox (Hunter College)\Teaching\GTECH_73100\GTEC
arcpy.management.MakeFeatureLayer(featureClassName, "sen22")
```

```
---------------------------------------------------------------------------
ExecuteError                              Traceback (most recent call last)
In  [32]:
Line 2:     arcpy.management.MakeFeatureLayer(featureClassName, "sen22")

File C:\Program Files\ArcGIS\Pro\Resources\ArcPy\arcpy\management.py, in MakeFeatureL
ayer:
Line 10316: raise e

File C:\Program Files\ArcGIS\Pro\Resources\ArcPy\arcpy\management.py, in MakeFeatureL
ayer:
Line 10313: retval = convertArcObjectToPythonObject(gp.MakeFeatureLayer_management(*g
p_fixargs((in_features, out_layer, where_clause, workspace, field_info), True)))

File C:\Program Files\ArcGIS\Pro\Resources\ArcPy\arcpy\geoprocessing\_base.py, in <la
mbda>:
Line 512:   return lambda *args: val(*gp_fixargs(args, True))

ExecuteError: Failed to execute. Parameters are not valid.
ERROR 000732: Input Features: Dataset D:\Cloud_Drive\Dropbox (Hunter College)\Teachin
g\GTECH_73100\GTECH_731_2023_Spring\Code\Session_07\SEN22_June_03_2022\SEN22_June_03_
2022.shpAssembly22 does not exist or is not supported
Failed to execute (MakeFeatureLayer).

---------------------------------------------------------------------------
```

In [13]:
```
m = aprx.listMaps("Map")[0]

[l.name for l in m.listLayers()]
```

Out[13]:
```
['SEN22_June_03_2022', 'CON22_June_03_2022', 'Assembly22']
```

In [26]:
```
lObj = m.listLayers()[0]

# turn the layer off
lObj.visible = False
```

In [27]:
```
lObj.visible = True
lObj.definitionQuery = 'District > 10'
```

In [28]:
```
lObj.definitionQuery = ''
```

In [29]:
```
import os, zipfile, fnmatch
from zipp import zipfile as zp

def addZipShp(datPath):
    for root, dirs, files in os.walk(datPath, topdown=True):
        for name in fnmatch.filter(files, '*.zip'):
          print(os.path.join(root, os.path.splitext(name)[0]))
          zp.ZipFile(os.path.join(root, name)).extractall(os.path.join(root, os.path.s

# aprx = arcpy.mp.ArcGISProject("CURRENT")
    for root, dirs, files in os.walk(datPath, topdown=True):
      for name in fnmatch.filter(files, '*.shp'):
```

```
            print(os.path.join(root, name))
            arcpy.management.MakeFeatureLayer(os.path.join(root, name), os.path.splitext
```

In [30]:
```
addZipShp(rootPath)
```

In [31]:
```
import os, zipfile, fnmatch
from zipp import zipfile as zp

def addZipShp_tool(datPath):
    aprx = arcpy.mp.ArcGISProject("CURRENT")

    for root, dirs, files in os.walk(datPath, topdown=True):
        for name in fnmatch.filter(files, '*.zip'):
          print(os.path.join(root, os.path.splitext(name)[0]))
          zp.ZipFile(os.path.join(root, name)).extractall(os.path.join(root, os.path.s


    for root, dirs, files in os.walk(datPath, topdown=True):
      for name in fnmatch.filter(files, '*.shp'):
          print(os.path.join(root, name))
          fileName = os.path.splitext(name)[0]
          aprx.activeMap.addDataFromPath(os.path.join(root, name))
          aprx.save()
```