In [3]:
```
import os
```

In [4]:
```
import geopandas as gpd
```

In [5]:
```
gpd_path = r"G:\STUDY\PHD\ADVANCED GIS\ASS 6\USA (1)"
```

In [19]:
```
# shapefiles in the directory
shapefiles = [file for file in os.listdir(gpd_path) if file.endswith(('.shp', '.SHP'))
```

In [20]:
```
# defining the CRS
target_crs = "EPSG: 2274"
```

In [21]:
```
# looping through the shapefiles
for shp in shapefiles:
    shp_path = os.path.join(gpd_path, shp)
    gdf = gpd.read_file(shp_path)
```

In [22]:
```
# current CRS to be reprojected
if gdf.crs != target_crs:
    print(f"Reprojecting {shp} from {gdf.crs} to {target_crs}")
```

```
Reprojecting zip_usa.shp from EPSG:4269 to EPSG: 2274
```

In [27]:
```
# reproject
gdf_reprojected = gdf.to_crs(target_crs)
```

In [28]:
```
# saving the output
output_path = os.path.join(gpd_path, f"reprojected_{shp}")
gdf_reprojected.to_file(output_path)
print(f"Reprojected shapefile saved to {output_path}")
```

```
Reprojected shapefile saved to G:\STUDY\PHD\ADVANCED GIS\ASS 6\USA (1)\reprojected_zi
p_usa.shp
```

In [ ]:
```

```