In [1]:
```
import requests
import zipfile
#The provided code sends an HTTP GET request to the 'dataurl'
response = requests.get(r'https://prism.oregonstate.edu/fetchData.php?type=all_bil&kir
bilpath = r"C:\Users\Track\OneDrive\Documents\ArcGIS\Projects\Lab2_2\30yearppt.zip"
if response.status_code ==200:
    with open (bilpath, 'wb') as file:
        file.write(response.content)

with zipfile.ZipFile(bilpath, 'r') as zip_ref:
    zip_ref.extractall (r"C:\Users\Track\OneDrive\Documents\ArcGIS\Projects\Lab2_2\BIL
```

In [2]:
```
arcpy.conversion.RasterToOtherFormat(
    Input_Rasters=r"C:\Users\Track\OneDrive\Documents\ArcGIS\Projects\Lab2_2\BIL\PRISM
    Output_Workspace=r"C:\Users\Track\OneDrive\Documents\ArcGIS\Projects\Lab2_2\BIL1",
    Raster_Format="TIFF"
)
```

Out[2]:

Messages

In [3]:
```
arcpy.management.CreateMosaicDataset(
    in_workspace=r"C:\Users\Track\OneDrive\Documents\ArcGIS\Projects\Lab2_2\Lab2_2.g
    in_mosaicdataset_name="PRISMMOSIAC",
    coordinate_system='GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983
    num_bands=None,
    pixel_type="",
    product_definition="NONE",
    product_band_definitions=None
)
```

Out[3]:

Messages

In [4]:
```
arcpy.management.AddRastersToMosaicDataset(
    in_mosaic_dataset="PRISMMOSIAC",
    raster_type="Raster Dataset",
    input_path=r"C:\Users\Track\OneDrive\Documents\ArcGIS\Projects\Lab2_2\BIL1",
    update_cellsize_ranges="UPDATE_CELL_SIZES",
    update_boundary="UPDATE_BOUNDARY",
    update_overviews="NO_OVERVIEWS",
    maximum_pyramid_levels=None,
    maximum_cell_size=0,
    minimum_dimension=1500,
    spatial_reference=None,
    filter="",
    sub_folder="SUBFOLDERS",
    duplicate_items_action="ALLOW_DUPLICATES",
    build_pyramids="NO_PYRAMIDS",
    calculate_statistics="NO_STATISTICS",
    build_thumbnails="NO_THUMBNAILS",
    operation_description="",
    force_spatial_reference="NO_FORCE_SPATIAL_REFERENCE",
    estimate_statistics="NO_STATISTICS",
```

```
    aux_inputs=None,
    enable_pixel_cache="NO_PIXEL_CACHE",
    cache_location=r"C:\Users\Track\AppData\Local\ESRI\rasterproxies\PRISMMOSIAC"
)
```

Out[4]:

Messages

In [12]:

```
arcpy.management.CalculateField(
    in_table=r"PRISMMOSIAC\Footprint",
    field="Variable",
    expression="'Prism'",
    expression_type="PYTHON3",
    code_block="",
    field_type="TEXT",
    enforce_domains="NO_ENFORCE_DOMAINS"
)
```

Out[12]:

Messages

In [13]:

```
arcpy.management.CalculateField(
    in_table=r"PRISMMOSIAC\Footprint",
    field="TimeStamp",
    expression="""var objectId = $feature.OBJECTID;

var calculatedDate = null;

if (objectId != 13) {
    // Calculate the date for all values except when objectId is 13
    calculatedDate = Date(1991, objectId - 1, 1);
}

calculatedDate
""",
    expression_type="ARCADE",
    code_block="",
    field_type="DATE",
    enforce_domains="NO_ENFORCE_DOMAINS"
)
```

Out[13]:

Messages

In [14]:

```
arcpy.md.BuildMultidimensionalInfo(
    in_mosaic_dataset="PRISMMOSIAC",
    variable_field="Variable ",
    dimension_fields="TimeStamp # #",
    variable_desc_units=None,
    delete_multidimensional_info="NO_DELETE_MULTIDIMENSIONAL_INFO"
)
```

Out[14]:

Messages

In [15]:
```
arcpy.md.MakeMultidimensionalRasterLayer(
    in_multidimensional_raster="PRISMMOSIAC",
    out_multidimensional_raster_layer="PRISMMOSIAC_MultidimLayer",
    variables="'Variable '",
    dimension_def="ALL",
    dimension_ranges=None,
    dimension_values=None,
    dimension="",
    start_of_first_iteration="",
    end_of_first_iteration="",
    iteration_step=None,
    iteration_unit="",
    template='-125.020833333333 24.0624999997935 -66.4791666661985 49.9375000
    dimensionless="DIMENSIONS",
    spatial_reference=None
)
```

Out[15]:

Messages

In [16]:
```
arcpy.stpm.CreateSpaceTimeCubeMDRasterLayer(
    in_md_raster="PRISMMOSIAC_MultidimLayer",
    output_cube=r"C:\Users\Track\OneDrive\Documents\ArcGIS\Projects\Lab2_2\T
    fill_empty_bins="ZEROS"
)
```

Out[16]:

Messages