#### **Github Link**

## https://github.com/bhavikgupta/lab7

#### **Code Screenshots**

#### Task1

#### Task2

#### **Task 2-2**

```
##### TASK 2-2 #######

## Define paths for bands

BASE_DIR=r"D:\Lab7"

band_RED = arcpy.sa.Raster(f"{BASE_DIR}\\LT05_L2SP_026039_20110803_20200820_02_T1_SR_B3.tiff")

band_GREEN = arcpy.sa.Raster(f"{BASE_DIR}\\LT05_L2SP_026039_20110803_20200820_02_T1_SR_B2.tiff")

band_BIUE = arcpy.sa.Raster(f"{BASE_DIR}\\LT05_L2SP_026039_20110803_20200820_02_T1_SR_B1.tiff")

band_NIR = arcpy.sa.Raster(f"{BASE_DIR}\\LT05_L2SP_026039_20110803_20200820_02_T1_SR_B4.tiff")

## Now Compute the Nour values

## Compute the Nour values

## formula: Nour_ESRI = ((NIR - RED)/(NIR + RED))*100 + 100

## Nour_ESRI = ((band_NIR - band_RED)/(band_NIR + band_RED))*100 + 100

## Saved Nour band

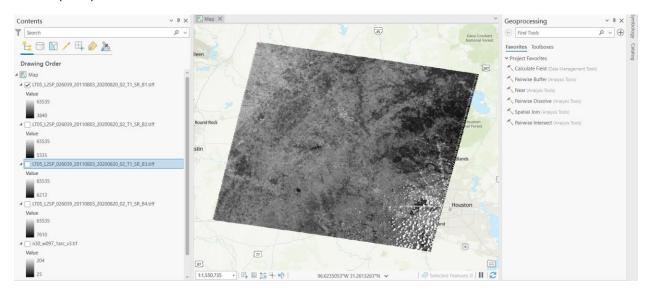
band_Nour_ESRI

## Saved Nour band

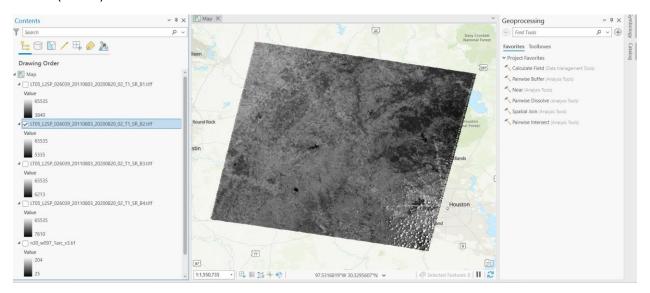
band_Nour_save(f"{BASE_DIR}\\LESRI_Nour_TIF")
```

# Results Original raster layers

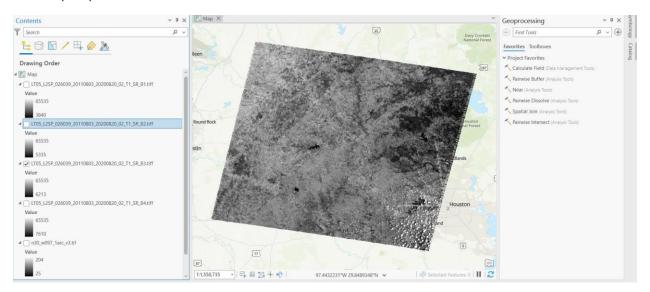
#### Band1 (Blue)



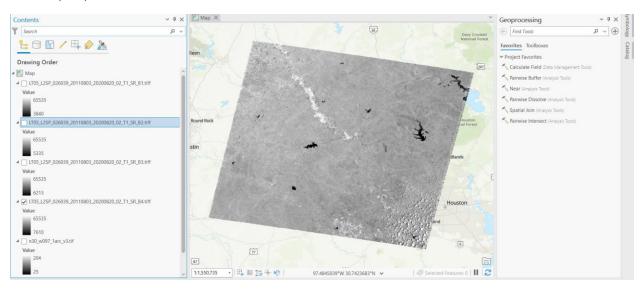
#### Band2 (Green)



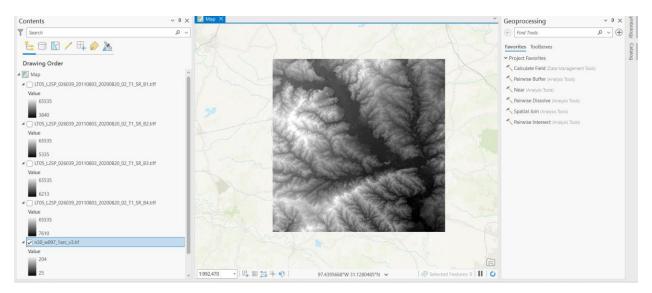
#### Band 3 (Red)



## Band 4 (NIR)

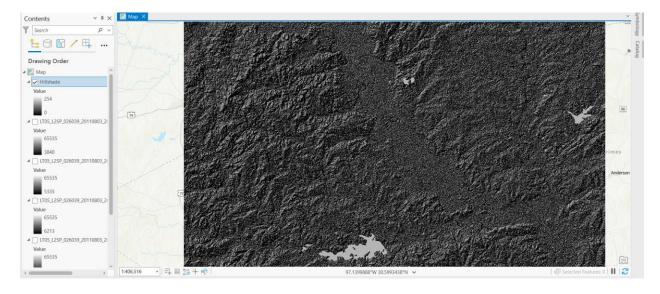


#### DEM

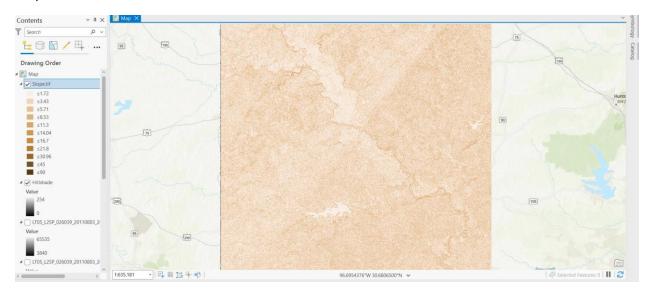


#### Task 1

#### Hillshade

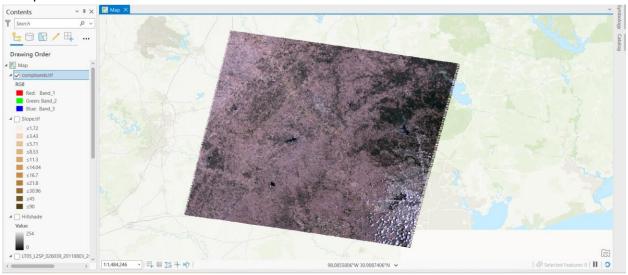


#### Slope



Task 2

## Composite

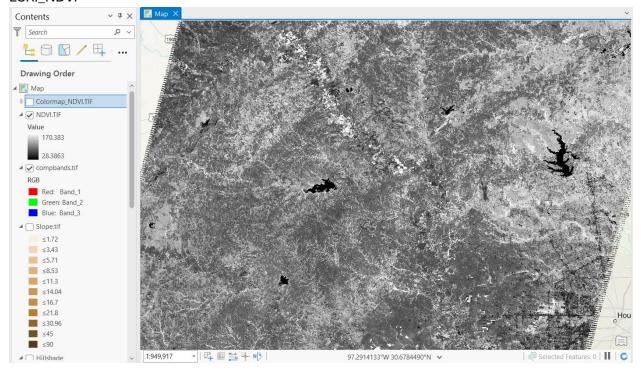


#### Clouds



Task 2 - 2

## ESRI\_NDVI



# NDVI after applying Colormap

