Aim: - Apply Raster analysis on satellite images

Step 1: Open QGIS
Step 2: Click on and Select Add Layer and then Select Add Raster Layer
Step 3: Select Source Type File and then Click on Browse
Step 4: Select 2000 MIN TIFF File and Select 2010 MIN TIFF File and then Click on OK
• Click on Add
Step 5: Go To Layer Styling and Select Singleband Pseudocolor and Set Color Ramp to Reds and Set Max to 8047.
• Here you can copy and paste the style of one layer to another layer. Right Click on gpw_v4_population_count_rev11_2010_2pt5_min and Select Style and then Select Copy Style
• gpw_v4_population_count_rev11_2000_2pt5_min and Select Style and then Select Paste Style
Step 6: Now go to Raster and Select Raster Calculator.
• In Raster Calculator Double Click First 2010 Population then Select minus (-) from the operators
and then Double Click 2000 Population and give the Output Layer Name and Set the path and Click on Ok.
Step 7: Now Uncheck both the population layer and Select your new output layer.
• Now go to layer styling and Set Symbology to Singleband Pseudocolor and Color Ramp to Blues and Set Min and Max to -160 to 951
Step 8: Now Remove All the values.
• Now Add 5 Values Naming Label and Values, Discrete = -100, Neutral = 100, Growth = 1000,
Medium Growth = 5000, High Growth =10000 and give each value different color.
• Here is the Final Output