Name: Aniket Tiwari

Roll No:21143285

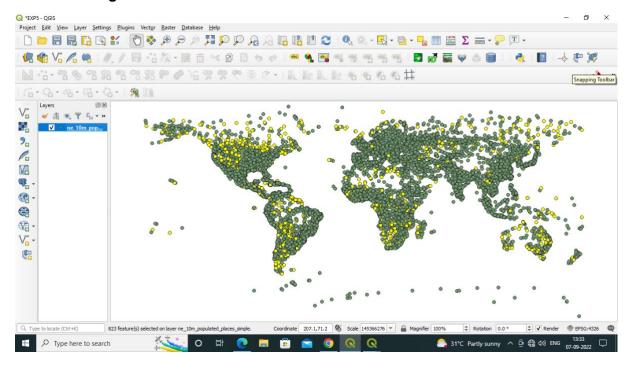
EXPERIMENT NO.: 5

TITLE: : Working with attributes, terrain Data

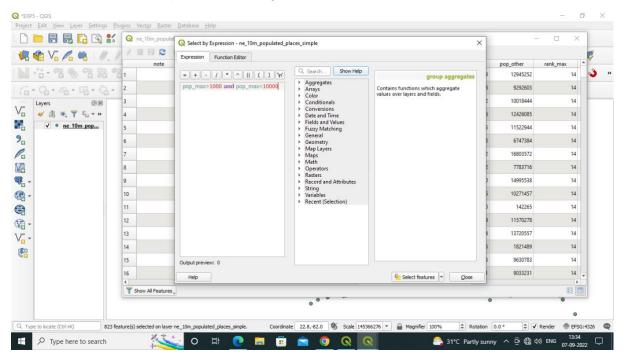
Right click on Layer in Layer Panel \rightarrow Open A Σ ribute Table. Explore various attributes and their values in the Attribute table. To find the Place with maximum population click on "pop_max" file

On clicking the Select feature using expression button the following window will appear.

After selecting feature :



Different queries can be performed using the dataset

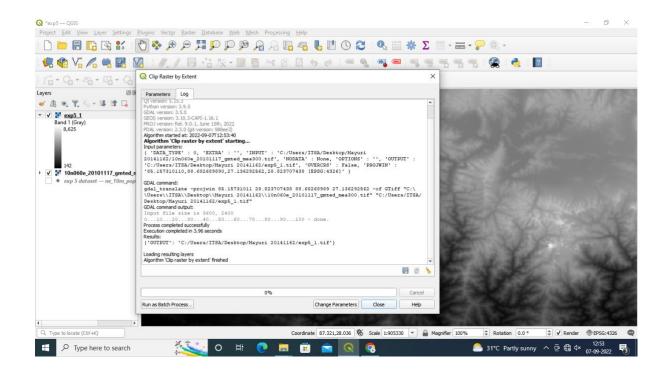


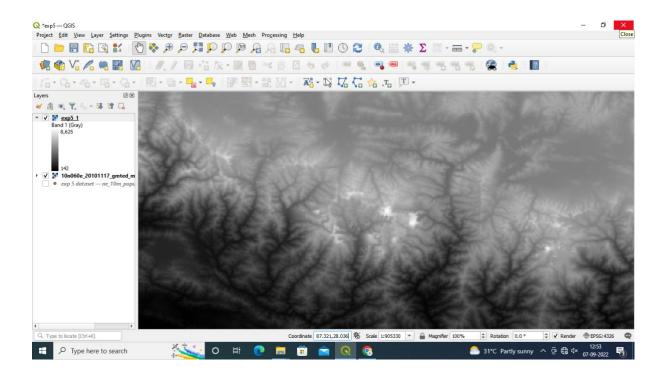
2. Terrain Data and Hill shade analysis

A terrain dataset is a multiresolution, TIN-based surface built from measurements stored as features in a geodatabase. Terrain or elevation data is useful for many GIS Analysis like, to generate various products from elevation data such as contours, hillshade etc.

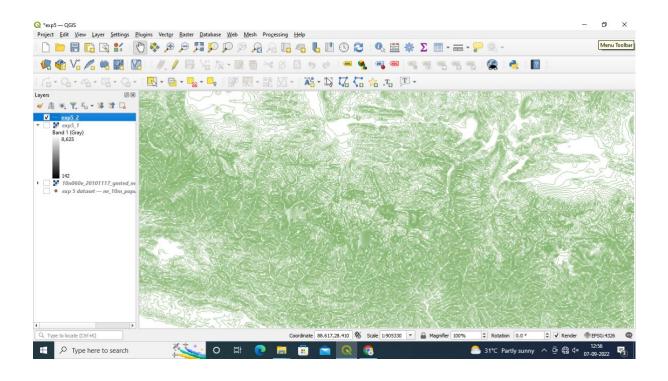
Go to Layer \rightarrow Add Raster Layer \rightarrow select "10n060e_20101117_gmted_mea300. Θ f", from Data folder

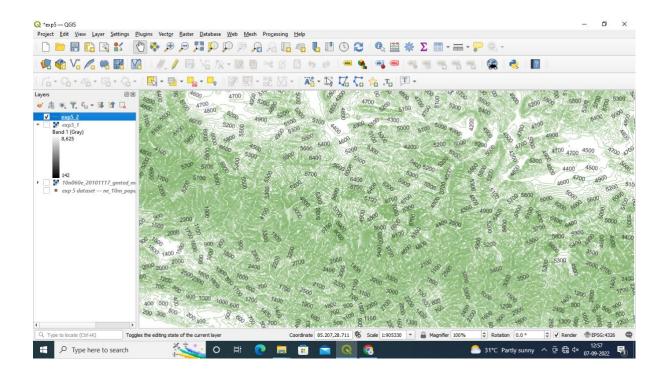
The Lower altitude regions are shown using dark color and higher using light shade as seen on top region containing Himalaya and Mt Everest. Mt. Everest - is located at the coordinates 27.9881° N, 86.9253° E. Enter 86.92, 27.98 in the coordinate field, Scale 900000 and Magnifier 100% at the bottom of QGIS.



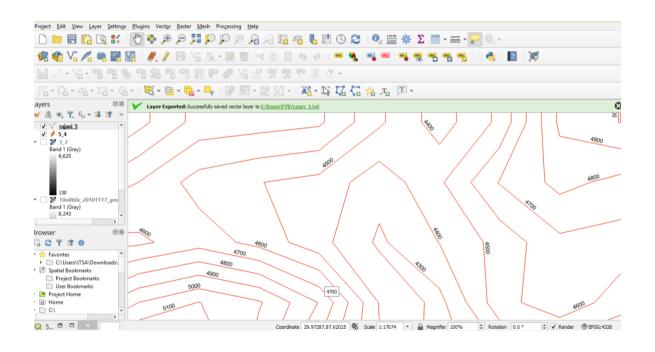


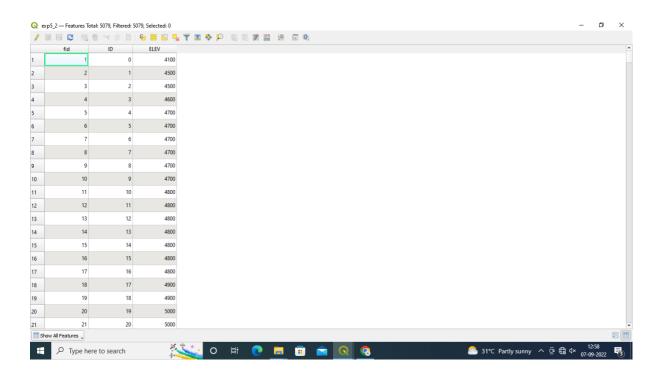
To derive counter lines from given raster. Go to Raster → Extracθon→ Contour The contour layer will appear like this



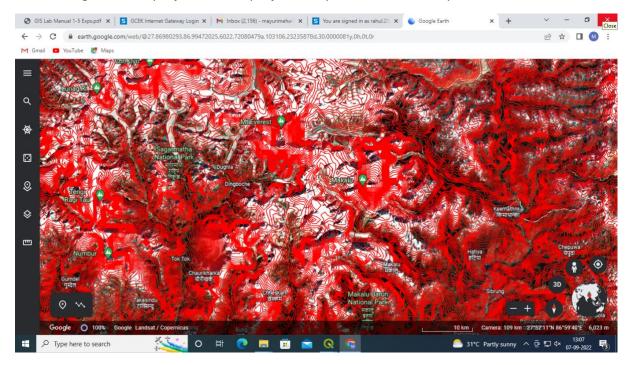


We can see counter line raster layer as follows





Go to Google earth->projects->new project->import kml from computer



HILLSHADE: A Hillshade is a grayscale 3D representation of the surface, showing the topographicalshape of hills and mountains using shading (levels of gray) on a map, just to indicate relative slopes, mountain ridges, not absolute height.

For Hill Shade surface analysis:

- Go to Raster → Analysis → Hill Shade
- Select the input raster layer, select file name and location for storing Hill Shade output file

