**Extracting latitude and longitude from a specific location for plotting the folium heat map**

**Step 1: Received Geo.json file from**

https://github.com/datameet/Municipal\_Spatial\_Data/tree/master/Bangalore

https://groups.google.com/g/datameet/c/a-VpOAzWoJA?pli=1

**Step 2: extracted the latitude and longitude of Koramangala from the Geo.json file**

**Step3: Generated a shape file using GeoPandas in python**

**Step 4: Reading the shape file using geoDataframe**

**Step 5:** Since the latitude and longitude values were nearly 200, so had to reduced the number of lat and Lon using Clustering Algorithm i.e K-Means wherein 5 CLUSTERS were generated.

**Step 6:** Using google earth engine, the latitude, longitude, temperature and the data time columns were generated.

DATASET USED : ECMWF/ERA5\_LAND/DAILY\_AGGR

BAND USED: temperature\_2m(surface temperature)

Date: 2019-01-01', '2022-12-31

**Step7**: CSV file was generated

**Step8:** Interactive folium heat map, to show the temperature of places.