Q1) Use geolife dataset which represent GPS trajectory data for different human activity and can be use for many objectives like monitoring Urban areas

1. Use 100 sample trajectory from the dataset
2. Use Haversine formula to convert GPS latitude and longitude to the actual location considering the spherical shape of the earth
3. Mining interesting locations by using density based clustering DBSCAN and Hierarchical clustering

dataset link:

<http://research.microsoft.com/en-us/downloads/b16d359d-d164-469e-9fd4-daa38f2b2e13/>

User Guide:

<http://research.microsoft.com/pubs/152176/User%20Guide-1.2.pdf>

Read the user guide carefully