A description of the problem and a discussion of the background. (**15 marks**)

Delhi is a city with a huge population (roughly 20 million including suburbs) and an extensive network of metro lines with over 152 stations. Delhi Metro wants to understand the 10 most popular types of establishments near by each of these stations , so they can can target specific retail chains and invite them to set shop within the available retail space in the metro concourse

They also want to cluster the stations based on the types of establishments, so they can have a different marketing strategy for each sub group or cluster of station

A description of the data and how it will be used to solve the problem. (**15 marks)**

The data had to be having a list of all the stations and the Latitudes and Longitudes for each. That would enable me as the problem solver to use Foursquare as a base to pull information of establishments around each station .

I found this data online and this iis the link

<https://helperindia.com/list-delhi-metro-stations-gps-information/>

After downloading the data and using my Foursquare client details, I will perform the following

* Get top 10 types of establishments for each station
* Clustering of stations for further analysis