# COEP – Problem Statement – Assignment

The project is about on world's largest taxi company In this project, we're looking to predict the fare for their future transactional cases. The company delivers service to lakhs of customers daily. Now it becomes really important to manage their data properly to come up with new business ideas to get best results. Eventually, it becomes really important to estimate the fare prices accurately.

## The dataset contains the following fields:

- key - a unique identifier for each trip
- fare_amount - the cost of each trip in usd
- pickup_datetime - date and time when the meter was engaged
- passenger_count - the number of passengers in the vehicle (driver entered value)
- pickup_longitude - the longitude where the meter was engaged
- pickup_latitude - the latitude where the meter was engaged
- dropoff_longitude - the longitude where the meter was disengaged
- dropoff_latitude - the latitude where the meter was disengaged

## Objective:

- Understand the Dataset & cleanup (if required).
- Build Neural Network Regression models to predict the fare price of ride.
- Also evaluate the models & compare their respective scores like R2, RMSE, etc.

Link to dataset:

https://drive.google.com/file/d/1dVRCfqn3TksUzk6OtVYUzbMlx-cr1MX3/view?usp=share_link

Please note that you have to submit 2 things:

1) Ipython notebook with code and output
2) Solution methodology adopted to solve this problem