Activity 6.1 : A data set "Churn_Modelling" is given to you. We are given some financial details of the customers. The main column is the last one i.e. exited. Which shows whether a customer has exited the system or not. We have to train the ANN based on this data to make a prediction for this column i.e. "exited"

Perform the following steps for ANN implementation:

1. **Import the required Libraries**

Part 1 Data Pre-processing

2. **Import the data set for this problem**
3. **Segregate the independent and dependent columns in X and Y**
   [Hint: You can discard the columns which have no impact on the predicted column i.e. exited]

Encoding categorical data

[Do the following steps for encoding the categorical data]

4. **Label Encoding the "Gender" column**
5. **One Hot Encoding the "Geography" column**

6. **Splitting the dataset into the Training set and Test set**

   [Hint: Keep 80-20 ratio for split.]

Feature Scaling

7. **Feature Scaling:** It is mandatory step in case of Neural networks.
   [Hint: Search Standard Scalar in Python and apply the same on X_train and X_test]

Following steps will be performed in the next session

Part 2 - Building the ANN

Part 3 - Training the ANN

Part 4 - Making the predictions and evaluating the model