# Online Purchase Order Classification

This program aims to classify online purchase orders into high-risk or low-risk categories using a machine learning techniques called Logistic Regression for the Binary-Classification. Below are the instructions on how to use the program effectively:

## Requirements:

- Anaconda or Jupyter
- Input data-set present in the `risk-train.txt`

## Usage:

1. Download the Zip file to your local machine
2. The Zip contains source-code, the data-set and the project report
3. Ensure that the input data file named `risk-train.txt` is in the same folder or path as the `midterm_project.ipynb` file.
4. If the `risk-train.txt` is moved to another folder, make sure to add the correct path to the file inside 2nd cell, the `pd.read_table("location")` preferably an abosulte path.
5. Open the Jupyter Notebook file named `midter_project.ipynb` using Jupyter Notebook or JupyterLab.

## Program Execution:

- Execute the code cells in the Jupyter Notebook sequentially to preprocess the input data, train the logistic regression model, and evaluate its performance.
- Ensure that the file paths for input data are correctly specified in the notebook.
- Incase of an error encounter, try re-running the code-cells again from start or the code might misbehave due to inconsistancy