**ML Lab (CS360)**

**Assignment 7**

**Total Marks: 20**

**Submission date: 12/10/2023**

1. Cluster the Credit card dataset ([Download Here](https://www.kaggle.com/datasets/arjunbhasin2013/ccdata)) using K-means clustering algorithm.

1. Write your own code to implement the K-means algorithm without using in-built library functions. (10)
2. Find the optimal value of K using the Elbow method. Consider the value of K in the range of [1,10]. (5)
3. Repeat the experiments for k-means using in-built library functions and verify the results obtained in (a). (5)