Kevin Thomas

CSE 6361-001

1001544593

PROJECT -3 REPORT

Structure of the Code

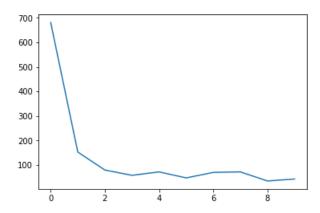
Packages imported are,

pandas, numpy, random, pyplot

- 1) The data is loaded from the external link given . After downloading the data before splitting we are changing the value for the string into integers. egs: 'Iris-setosa' \rightarrow 1 using replace function.
- 2) Then we shuffle the data so that we can obtain more accuracy while doing clustering
- 3)We find the centroids for the given data and classifying each points into each classes based on their distance from the centroid
- 4)Thus we implement the K means Clustering.

Result:

The N value I have chosen here is 3. The reason I have chosen 3 is as it is efficient and its proven by the Elbow Method which was also given in the code Elbow.py .



ELBOW METHOD

To run the code, it can be ran on any python IDE.