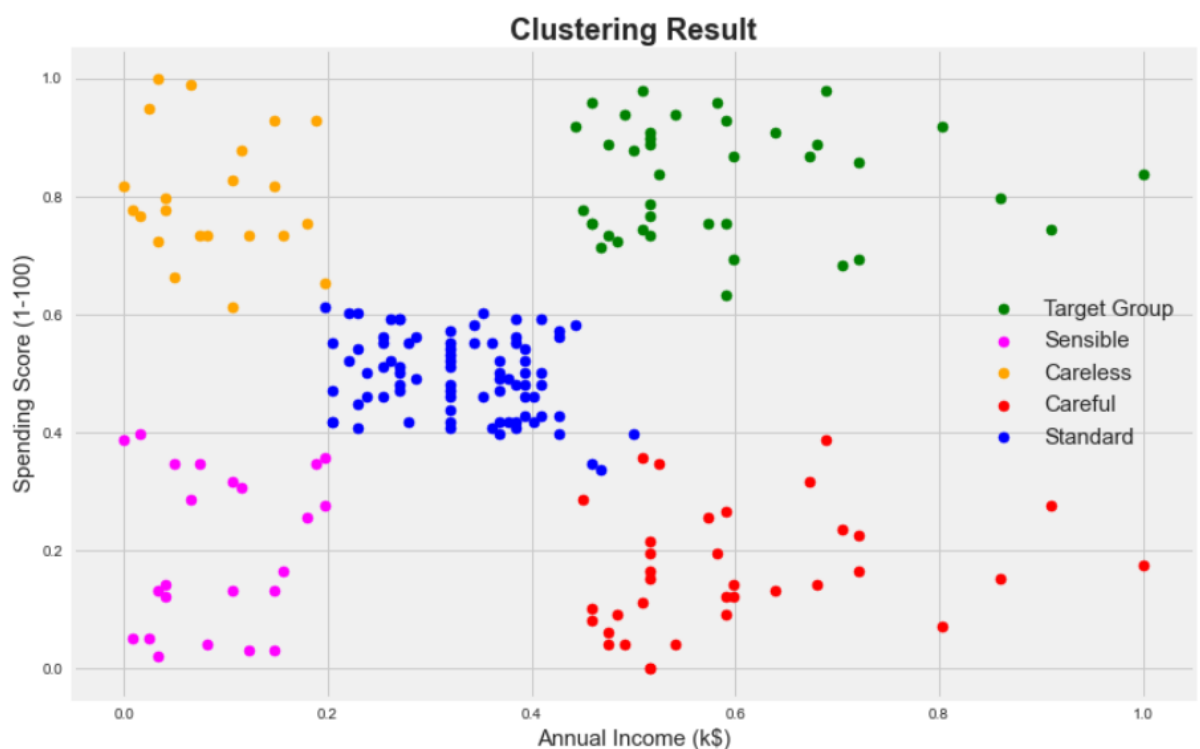


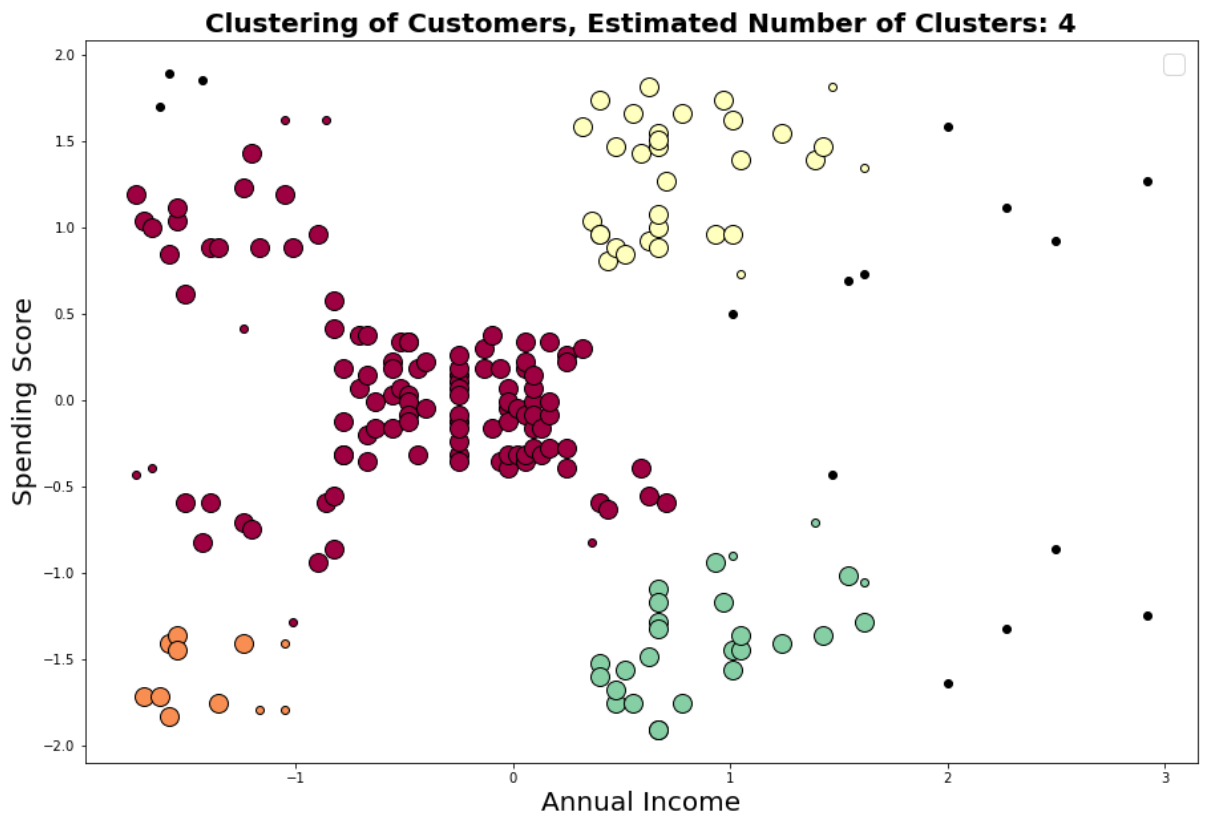
## Data Mining Assignment 2 (Clustering – Kmean and DBScan)

Note: Follow the deadline. Time will not be extended. The assignment should be submitted in the zip file with python code and report. The zip file name should contain your name and roll number

1. Download the dataset of customers in csv file given with this assignment
2. Load the dataset for applying clustering algorithm
3. Display first five customers dataset
4. Display information of the dataset.
5. visualize the dataset using scatter plot between spending score and annual income
6. Convert the spending score and annual income attributes in a array
7. Perform the feature scaling on the resulting array
8. Apply elbow method to fine appropriate value of k
9. Apply kMeans with the value of K found in last step. Visualize your clustering as shown in figure below.



10. Apply DBSCAN algorithm on the same dataset with epsilon = 0.4 and min\_samples = 5
11. Visualize the clustering as shown in the figure below.



12. Prepare a report that explain all these steps and screen shots of your results. The report should also include the analysis and comparison between the two algorithms