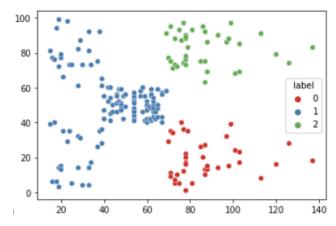
K-means Clustering

In this assignment, you need to implement the K-means clustering algorithm on the following dataset.

https://drive.google.com/file/d/1xHNXEdnyEcxMqlk4lA1JqVjKFr3sdV2Q/vi
ew?usp=drive_link

What to Submit?

- 1. You need a submit a single PDF report file and the name of that file should be your roll numbers.
- 2. You need to run the k-means algorithm on the dataset for k=2, k=3.
- 3. In your report, you should have 2 plots one for k=2 and the other for k=3. In the plot, you need to plot the given dataset and use different colors to show points belonging to a particular cluster. Example,



Note

- 1. Your code should be in Python.
- 2. You are not allowed to use libraries like sci-kit learn, Tensorflow, Pytorch, etc, and use their built-in linear regression models.
- 3. You may use libraries like numpy, pandas, matplotlib, etc to read and manipulate the dataset and plot the graphs.
- 4. Your plots should be labeled properly.
- 5. Normalize your predictor before starting training the model.