

## Experiment 3

The aim of this experiment is to implement a KNN classifier using sklearn package in Python. The classifier will be used to classify type of wine using various features such as alcohol concentration, malic acid concentration, Hue, color intensity etc. Implement the following steps in Python.

1. Read the file wine.csv using pandas read\_csv() function and analyze the features and labels.
2. Split your dataset using train\_test\_split() function from sklearn.
3. Scale all features (X) to zero mean and unit variance using StandardScaler() in sklearn.
4. Build KNN classifier and analyze its performance by evaluating accuracy and confusion matrix.