

## Exercise 6: KNN

Write a Python program that uses scikit-learn library to train a KNN classifier on a given dataset and then use the classifier to predict the class of a given test data point.

The program should take the following steps:

1. Load a dataset from scikit-learn library, such as the iris dataset, breast cancer dataset, or digits dataset.
2. Split the dataset into a training set and a test set.
3. Train a KNN classifier on the training set using `sklearn.neighbors.KNeighborsClassifier`.
4. Predict the class of a given test data point using the trained classifier.
5. Evaluate the performance of the classifier on the test set using `sklearn.metrics.accuracy_score`.

Dataset can be obtained from following link

<https://www.kaggle.com/datasets/uciml/pima-indians-diabetes-database>