LAB Experiments

1. Getting familiar with python syntax and introduction to python open source libraries for Information Retrieval (Scipy, Numpy, Matplotlib, pandas, Sklearn).
    a) Downloading, installing and getting started with Python Anaconda.
    b) WAP to display about yourself (Name, branch, roll no, semester, department, college name) where you show different types of comment line including the new line.
    c) WAP to convert the value from Celsius to Fahrenheit.
    d) WAP to display swapping two numbers.
    e) WAP to display the working of different python operators on two numbers.
2. Loading and Understanding datasets (Pima Indian diabetes, Iris) using pandas. Find out Statistical summary of data (Mean Median, Mode, Variance, Co-variance, and Correlation) and Implementation of various classification algorithms on above mentioned dataset
3. Load dataset(Pima indian diabetes and iris) to python environmental dataset, make the confusion matrix for both dataset and compare classification performance of all the well known algorithms
4. Implementation on Pima indian diabetes and iris dataset
    4(a) Implementation of k-NN algorithm using Sklearn
    4(b) Implementation of K-NN algorithm without using Sklearn library
    4© Optimize k value of k-NN algorithm for iris dataset