1)Write a python program to compute Mean, Median, Mode, Variance , Standard Deviation of a data of an array consisting 10 values.

2)Creation and loading different types of datasets and Perform Below given data preprocessing techniques for a given datasets.

1. Reshaping the data
2. Filtering the data
3. Handling the Misssing Values in dataset
4. Feature Normalizarion-Min Max Normalization

3) Implement Dimensionality reduction using Principle component Analysis method on a dataset .

4) Write a program to demonstrate the working of the decision tree based ID3 algorithm by considering a dataset.

5) Consider a dataset, use Random Forest to predict the output class. Vary the number of trees as follows and compare the results:

i. 20

ii. 50

iii. 100

6) Write a Python program to implement Simple Linear Regression for iris using sklearn and plot the confusion matrix.