List of Experiments

Course: BCA   **Semester: VI**

Subject: Fundamentals of Machine Learning Lab   **Course Code: PBC 602**

1. Create a Data Frame using dictionary containing students' marks details with columns Student_ID, Student_Name, Gender, Sub1, Sub2, Sub3 with the marks of 20 students.
   Or you can create an excel file for the same and import it.
   (i)   Find the mean and median marks in each subject.
   (ii)   Find the mode of 'Gender' column.
   (iii)   Find the variance and standard deviation of marks in each subject

2. Define two matrices. Find their sum, difference, transpose and product of two matrices.
3. Write a Python Program to perform following operations.
   a) Read file with the help of function
   b) Rename file
   c) Delete file
4. Write a Python program to count the number of lines in a text file using enumerate.
5. Write a Python program to create a module named as calculator.py. which defines four functions addition, subtraction, multiplication and division, and import this module to another module to use its functions.
6. Construct clusters by using KMeans algorithm on a sample data set. Take the value of k=3, visualize all three clusters using scatter plot also print the Silhouette score of the clustering.
7. WAP to check if a value entered by a user is palindrome or not.
8. WAP to print a factorial of a number.