1. Write a Program to perform the following operations on matrices
a) Matrix addition
b) Matrix Subtraction
c) Matrix Multiplication
d) Matrix Inversion
e) Transpose of a Matrix

2. Write a Program to perform the following operations
a) Find the minimum and maximum element of the matrix
b) Find the minimum and maximum element of each row in the matrix
c) Find the minimum and maximum element of each column in the matrix
d) Find trace of the given matrix
e) Find rank of the given matrix
f) Find eigenvalues and eigenvectors of the given matrix

3. Write a Program to find the mean, median, standard deviation and mode using user defined functions.