1. Write a Python Program to Add Two Matrices? **Ans**:

```
In [8]: 1 import numpy as np
2 print('Enter order of matrices:')
3 m = int(input('Number of rows:'))
4 n = int(input('Number of columns:'))
5 print('Enter elements of matrix 1:')
6 entries = list(map(int, input().split()))
7 matrix1 = np.array(entries).reshape(m,n)
8 print('Enter elements of matrix 2:')
9 entries = list(map(int, input().split()))
10 matrix2 = np.array(entries).reshape(m,n)
11 print('Matrix 1: \n', matrix1)
12 print('Matrix 1: \n', matrix1)
12 print('Matrix 2: \n', matrix2)
13 Sum = matrix1 + matrix2
14 print(Sum)
Enter order of matrices:
Number of rows:2
Number of columns:2
Enter elements of matrix 1:
1 2 3 4
Enter elements of matrix 2:
1 2 3 4
Matrix 1:
[[1 2]
[3 4]]
Matrix 2:
[[1 2]
[3 4]]
[[2 4]
[[6 8]]
```

2. Write a Python Program to Multiply Two Matrices? **Ans**:

```
In [3]:
    import numpy as np
    print('Enter order of matrix1:')
    all = int(input('Number of rows:'))
    4 nl = int(input('Number of columns:'))
    print('Enter elements of matrix 1:')
    6 entries1 = list(map(int, input().split()))
    7 matrix1 = np.array(entries1).reshape(m1,n1)
    8 print('Enter order of matrix2:')
    9 m2 = int(input('Number of rows:'))
    10 n2 = int(input('Number of rows:'))
    11 print('Enter elements of matrix 2:')
    12 entries2 = list(map(int, input().split()))
    13 matrix2 = np.array(entries2).reshape(m2,n2)
    14 print('Natrix 1: n', matrix1)
    15 print('Natrix 1: n', matrix1)
    16 print('Natrix 2: n', matrix1)
    17 result = ll be a ',ml, ' X', n2, ' matrix')
    17 result = []
    18 result = np.dot(matrix1,matrix2)
    19
    20 for r in result:
    19 print('Number of rows:2)
    Number of rows:2
    Number of columns:3
    Enter order of matrix1:
    Number of columns:3
    Number of columns:2
    Enter elements of matrix 2:
    10 il 12 l3 l4 15
    Natrix 1:
    [3 4 5]
    [6 7 8]]
    Natrix 2:
    [10 il]
    [14 15]
    The result will be a 2 X 2 matrix
    [148 166]
    [256 277]
```

3. Write a Python Program to Transpose a Matrix? Ans:

4. Write a Python Program to Sort Words in Alphabetic Order? **Ans**:

5. Write a Python Program to Remove Punctuation From a String? **Ans**:

```
In [2]: 1 import re
2 string = imput("Enter a string: ")
3 res = re.sub(r'[^\w\s]', '', string)
4 print("After removing punctuation : " + res)
Enter a string: I "am" (Thejaswini)
After removing punctuation : I man Thejaswini
```