* Write a Python Program to Add Two Matrices?

import numpy as np

mat1 = np.array([[1,4,6],

[7,5,88],

[8,5,77]])

mat2 = np.array([[12,43,74],

[5,8,3],

[8,9,9]])

Matsum = np.add(mat1,mat2)

print("The Sum of two matrix \n\n{} and \n\n{} is \n\n{} ".format(mat1,mat2,Matsum))

* Write a Python Program to Multiply Two Matrices?

import numpy as np

mat1 = np.array([[13,42,64],

[3,7,4],

[9,1,2]])

mat2 = np.array([[2,4,7],

[55,67,8],

[8,9,1]])

mulMat = np.dot(mat1,mat2)

print("The product of two matrix \n\n{} and \n\n{} is \n\n{} ".format(mat1,mat2,mulMat))

* Write a Python Program to Transpose a Matrix?

a = [[1,2,3],[4,5,6],[7,8,9]]

b = [[1,2],[4,5],[7,8]]

c = [[1,2,3],[4,5,6]]

def generate\_transpose(in\_matrix):

out\_matrix = []

for ele in range(len(in\_matrix[0])):

out\_matrix.append([0 for i in range(len(in\_matrix))])

for i in range(len(in\_matrix)):

for j in range(len(in\_matrix[i])):

out\_matrix[j][i] = in\_matrix[i][j]

print(f'{in\_matrix} -> {out\_matrix}')

generate\_transpose(a)

generate\_transpose(b)

generate\_transpose(c)

* Write a Python Program to Sort Words in Alphabetic Order?

def sortString():

in\_string = input("Enter a String: ").title()

sorted\_list = sorted(in\_string.split(' '))

print(' '.join(sorted\_list))

sortString()

* Write a Python Program to Remove Punctuation From a String?

def removePunctuatuions():

punctuations = '''!()-[]{};:'"\,<>./?@#$%^&\*\_~'''

in\_string = input('Enter a String: ')

out\_string = ''

for ele in in\_string:

if ele not in punctuations:

out\_string += ele

print(out\_string)

removePunctuatuions()