1. Write a Python Program to Add Two Matrices?

X = [[12,7,3],

[4 ,5,6],

[7 ,8,9]]

Y = [[1, 2, 3],

[4, 7, 6],

[2, 5, 9]]

result = [[X[i][j] + Y[i][j] for j in range(len(X))] for i in range(len(X))]

for r in result:

print(r)

>>>

[13, 9, 6]

[8, 12, 12]

[9, 13, 18]

1. Write a Python Program to Multiply Two Matrices?

import numpy as np

A = [[1, 2, 3],

[4, 7, 6],

[2, 5, 9]]

B = [[5, 2, 1, 9],

[6, 2, 2, 0],

[4, 1, 3, 1]]

result= [[0,0,0,0],

[0,0,0,0],

[0,0,0,0]]

result = np.dot(A,B)

for r in result:

print(r)

>>>

[29 9 14 12]

[86 28 36 42]

[76 23 39 27]

1. Write a Python Program to Transpose a Matrix?

import numpy as np

M1 = np.array([[3, 2, 5], [5, -30, 12], [9,2,8]])

M2 = M1.transpose()

print(M2)

>>>

[[ 3 5 9]

[ 2 -30 2]

[ 5 12 8]]

1. Write a Python Program to Sort Words in Alphabetic Order?

word\_list = ['Elle', 'Miles', 'Kratos', 'Joel', 'Peter', 'Nathan']

def sort\_alphabetically(words):

return sorted(word\_list)

print(sort\_alphabetically(word\_list))

>>> ['Elle', 'Joel', 'Kratos', 'Miles', 'Nathan', 'Peter']

1. Write a Python Program to Remove Punctuation From a String?

string = "My [name :is aniket# %gaikw.ad\_&"

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

for i in string:

if i in punc:

string = string.replace(i, "")

print("New String: " + string)

>>> New String: My name is aniket gaikwad