1. Write a Python Program to Add Two Matrices?

A: X = [[1,2,3],

[4 ,5,6],

[7 ,8,9]]

Y = [[9,8,7],

[6,5,4],

[3,2,1]]

result = [[0,0,0],

[0,0,0],

[0,0,0]]

for i in range(len(X)):

# iterate through columns

for j in range(len(X)):

result[i][j] = X[i][j] + Y[i][j]

for r in result:

print(r)

1. Write a Python Program to Multiply Two Matrices?

A: # Program to multiply two matrices using nested loops

# 3x3 matrix

X = [[12,7,3],

[4 ,5,6],

[7 ,8,9]]

# 3x4 matrix

Y = [[5,8,1,2],

[6,7,3,0],

[4,5,9,1]]

# result is 3x4

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

[0,0,0,0],

[0,0,0,0]]

# iterate through rows of X

for i in range(len(X)):

# iterate through columns of Y

for j in range(len(Y[0])):

# iterate through rows of Y

for k in range(len(Y)):

result[i][j] += X[i][k] \* Y[k][j]

for r in result:

print(r)

1. Write a Python Program to Transpose a Matrix?

A: # Program to transpose a matrix using a nested loop

X = [[12,7],

[4 ,5],

[3 ,8]]

result = [[0,0,0],

[0,0,0]]

# iterate through rows

for i in range(len(X)):

# iterate through columns

for j in range(len(X[0])):

result[j][i] = X[i][j]

for r in result:

print(r)

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

A: def Func(S):

W = S.split(" ")

for i in range(len(W)):

# convert all the words into lowercase

W[i]=W[i].lower()

S = sorted(W)

print(' '.join(S))

# Driver code

S = "the Quick brown fox jumPs over the lazY Dog"

# function call

Func(S)

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

A: import re

# initializing string

test\_str = "I will !, leave ; the country,"

# printing original string

print("The original string is : " + test\_str)

# Removing punctuations in string

# Using regex

res = re.sub(r'[^\w\s]', '', test\_str)

# printing result

print("The string after punctuation filter : " + res)