1. Write a Python Program to Add Two Matrices?

Ans.

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]]

# iterate through rows

for i in range(len(X)):

# iterate through columns

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

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

for r in result:

print(r)

OUTPUT:

[10, 10, 10]

[10, 10, 10]

[10, 10, 10]

1. Write a Python Program to Multiply Two Matrices?

Ans.

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]]

# iterate through rows

for i in range(len(X)):

# iterate through columns

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

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

for r in result:

print(r)

OUTPUT:

[9, 16, 21]

[24, 25, 24]

[21, 16, 9]

1. Write a Python Program to Transpose a Matrix?

Ans.

X = [[1,2],

[2 ,3],

[3 ,4]]

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)

OUTPUT:

[1, 2, 3]

[2, 3, 4]

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

Ans.

a = "This is my piece of code to Sort Words in Alphabetic Order"

words = [word.lower() for word in a.split()]

words.sort()

print("The sorted words are:")

for word in words:

print(word)

OUTPUT:

The sorted words are:

alphabetic

code

in

is

my

of

order

piece

sort

this

to

words

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

Ans.

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

a = "Hi, This is Vikas Gupta, and I'am writing a code, which is right."

no\_punct = ""

for char in a:

if char not in punctuations:

no\_punct = no\_punct + char

print(no\_punct)

OUTPUT:

Hi This is Vikas Gupta and Iam writing a code which is right