1. Write a Python Program to Add Two Matrices?

A. # define two matrices

matrix1 = [[1, 2, 3],

[4, 5, 6],

[7, 8, 9]]

matrix2 = [[10, 11, 12],

[13, 14, 15],

[16, 17, 18]]

# create an empty matrix to store the result

result = [[0, 0, 0],

[0, 0, 0],

[0, 0, 0]]

# iterate over the rows and columns of the matrices

for i in range(len(matrix1)):

for j in range(len(matrix1[0])):

# add the corresponding elements from both matrices

result[i][j] = matrix1[i][j] + matrix2[i][j]

# print the result

print("Result:")

for row in result:

print(row)

1. Write a Python Program to Multiply Two Matrices?

A. # define two matrices

matrix1 = [[1, 2, 3],

[4, 5, 6],

[7, 8, 9]]

matrix2 = [[10, 11],

[12, 13],

[14, 15]]

# create an empty matrix to store the result

result = [[0, 0],

[0, 0],

[0, 0]]

# iterate over the rows and columns of the result matrix

for i in range(len(matrix1)):

for j in range(len(matrix2[0])):

# iterate over the columns of the first matrix

for k in range(len(matrix1[0])):

# multiply the corresponding elements from both matrices and add to the result

result[i][j] += matrix1[i][k] \* matrix2[k][j]

# print the result

print("Result:")

for row in result:

print(row)

1. Write a Python Program to Transpose a Matrix?

A. # define a matrix

matrix = [[1, 2, 3],

[4, 5, 6],

[7, 8, 9]]

# create an empty matrix to store the transposed matrix

transpose = [[0, 0, 0],

[0, 0, 0],

[0, 0, 0]]

# iterate over the rows and columns of the original matrix

for i in range(len(matrix)):

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

# copy the element to the corresponding position in the transposed matrix

transpose[j][i] = matrix[i][j]

# print the transposed matrix

print("Original Matrix:")

for row in matrix:

print(row)

print("Transposed Matrix:")

for row in transpose:

print(row)

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

A. # define a list of words

words = ["apple", "banana", "cherry", "date", "elderberry"]

# sort the words in alphabetical order

words.sort()

# print the sorted words

print("Sorted words:", words)

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

A. import string

# define a string with punctuation

string\_with\_punctuation = "Hello, world! How are you doing?"

# remove punctuation from the string

string\_without\_punctuation = string\_with\_punctuation.translate(str.maketrans("", "", string.punctuation))

# print the original and modified strings

print("Original string:", string\_with\_punctuation)

print("String without punctuation:", string\_without\_punctuation)