1. Write a Python Program to Add Two Matrices?

Ans1

matrix1 = [[1, 2, 3],

[4, 5, 6],

[7, 8, 9]]

matrix2 = [[10, 11, 12],

[13, 14, 15],

[16, 17, 18]]

result = [[0, 0, 0],

[0, 0, 0],

[0, 0, 0]]

for i in range(len(matrix1)):

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

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

for row in result:

print(row)

2. Write a Python Program to Multiply Two Matrices?

Ans2

matrix1 = [[1, 2],

[3, 4],

[5, 6]]

matrix2 = [[7, 8, 9],

[10, 11, 12]]

result = [[0, 0, 0],

[0, 0, 0],

[0, 0, 0]]

for i in range(len(matrix1)):

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

for k in range(len(matrix2)):

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

for row in result:

print(row)

3. Write a Python Program to Transpose a Matrix?

Ans3

matrix = [[1, 2],

[3, 4],

[5, 6]]

transpose = [[0, 0, 0],

[0, 0, 0]]

for i in range(len(matrix)):

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

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

for row in transpose:

print(row)

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

Ans4

string = input("Enter a string: ")

words = string.split()

words.sort()

print("Sorted words: ")

for word in words:

print(word)

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

Ans5

import string

string = input("Enter a string: ")

punctuation = set(string.punctuation)

no\_punctuation = ''.join(char for char in string if char not in punctuation)

print("String without punctuation: ")

print(no\_punctuation)