1. Write a Python Program to Add Two Matrices?

def add\_matrices(mat1, mat2):

result = [[mat1[i][j] + mat2[i][j] for j in range(len(mat1[0]))] for i in range(len(mat1))]

return result

# Example

matrix1 = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]

matrix2 = [[9, 8, 7], [6, 5, 4], [3, 2, 1]]

print("Sum of two matrices:")

for row in add\_matrices(matrix1, matrix2):

print(row)

1. Write a Python Program to Multiply Two Matrices?

def multiply\_matrices(mat1, mat2):

result = [[sum(mat1[i][k] \* mat2[k][j] for k in range(len(mat2))) for j in range(len(mat2[0]))] for i in range(len(mat1))]

return result

# Example

matrix1 = [[1, 2], [3, 4]]

matrix2 = [[5, 6], [7, 8]]

print("Product of two matrices:")

for row in multiply\_matrices(matrix1, matrix2):

print(row)

1. Write a Python Program to Transpose a Matrix?

def transpose\_matrix(matrix):

result = [[matrix[j][i] for j in range(len(matrix))] for i in range(len(matrix[0]))]

return result

# Example usage

matrix = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]

print("Original matrix:")

for row in matrix:

print(row)

print("Transposed matrix:")

for row in transpose\_matrix(matrix):

print(row)

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

def sort\_words\_in\_alphabetic\_order(sentence):

words = sentence.split()

words.sort()

return ' '.join(words)

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

def remove\_pun(strin):

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

no\_punct = ""

for char in my\_str:

if char not in punctuations:

no\_punct = no\_punct + char

return no\_punct