**1. Write a Python Program to Add Two Matrices?**

def add\_matrices(A, B):

rows = len(A)

columns = len(A[0])

C = [[0 for j in range(columns)] for i in range(rows)]

for i in range(rows):

for j in range(columns):

C[i][j] = A[i][j] + B[i][j]

return C

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

B = [[10, 20, 30], [40, 50, 60], [70, 80, 90]]

print("First Matrix:")

for row in A:

print(row)

print("Second Matrix:")

for row in B:

print(row)

print("Sum of matrices:")

C = add\_matrices(A, B)

for row in C:

print(row)

**2. Write a Python Program to Multiply Two Matrices?**

def multiply\_matrices(A, B):

rows\_A = len(A)

columns\_A = len(A[0])

rows\_B = len(B)

columns\_B = len(B[0])

if columns\_A != rows\_B:

print("Matrices can't be multiplied.")

return

C = [[0 for j in range(columns\_B)] for i in range(rows\_A)]

for i in range(rows\_A):

for j in range(columns\_B):

for k in range(columns\_A):

C[i][j] += A[i][k] \* B[k][j]

return C

A = [[1, 2, 3], [4, 5, 6]]

B = [[10, 20], [30, 40], [50, 60]]

print("First Matrix:")

for row in A:

print(row)

print("Second Matrix:")

for row in B:

print(row)

print("Product of matrices:")

C = multiply\_matrices(A, B)

for row in C:

print(row)

**3. Write a Python Program to Transpose a Matrix?**

def transpose(A):

rows = len(A)

columns = len(A[0])

B = [[0 for j in range(rows)] for i in range(columns)]

for i in range(rows):

for j in range(columns):

B[j][i] = A[i][j]

return B

print("Enter the number of rows and columns of the matrix:")

rows, columns = map(int, input().split())

A = [[int(input()) for j in range(columns)] for i in range(rows)]

print("Original Matrix:")

for row in A:

print(row)

print("Transposed Matrix:")

B = transpose(A)

for row in B:

print(row)

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

def sort\_words(words):

words.sort()

return words

words = input("Enter a list of words, separated by spaces: ").split()

sorted\_words = sort\_words(words)

print("Words sorted in alphabetical order:")

print(\*sorted\_words, sep='\n')

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

import string

def remove\_punctuation(text):

return ''.join(c for c in text if c not in string.punctuation)

text = input("Enter a string: ")

cleaned\_text = remove\_punctuation(text)

print("String without punctuation:")

print(cleaned\_text)