1. Write a Python Program to Add Two Matrices?

Ans-

X = [[12,7,3],

[4 ,5,6],

[7 ,8,9]]

print(len(X))

Y = [[5,8,1],

[6,7,3],

[4,5,9]]

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)

1. Write a Python Program to Multiply Two Matrices?

Ans-

A = [[5, 4, 3],

     [2, 4, 6],

[4, 7, 9]]

B = [[3, 2, 4],

     [4, 3, 6],

     [2, 7, 5]]

multiResult = [[0, 0, 0],

               [0, 0, 0],

               [0, 0, 0]]

**for** m **in** range(len(A)):

**for** n **in** range(len(B[0])):

**for** o **in** range(len(B)):

               multiResult[m][n] += A[m][o] \* B[o][n]

**print**("The multiplication result of matrix A and B is: ")

**for** res **in** multiResult:

**print**(res)

1. Write a Python Program to Transpose a Matrix?

Ans-

X = [[12,7],

[4 ,5],

[3 ,8]]

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)

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

Ans-

my\_str = input("Enter a string: ")

words = [word.lower() for word in my\_str.split()]

words.sort()

print("The sorted words are:")

for word in words:

print(word)

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

Ans-

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

my\_str = input("Enter a string with punctuations : ")

print("Entered string is : ",my\_str)

no\_punct = ""

for char in my\_str:

if char not in punctuations:

no\_punct = no\_punct + char

print("After removing punctuations, the string is : ",no\_punct)