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

mat1 = [[1,2,3],

        [6, -4, -9],

        [3,6,9]]

mat2 = [[6,9,3],

        [1,-1,1],

        [0, 9, 11]]

result = []

for i in range(len(mat1)):

    row = []

    for j in range(len(mat1)):

        row.append(mat1[i][j]+mat2[i][j])

    result.append(row)

result

[[7, 11, 6], [7, -5, -8], [3, 15, 20]]

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

A = [[12, 7, 3],

    [4, 5, 6],

    [7, 8, 9]]

B = [[5, 8, 1, 2],

    [6, 7, 3, 0],

    [4, 5, 9, 1]]

result = [[0, 0, 0, 0],

        [0, 0, 0, 0],

        [0, 0, 0, 0]]

for i in range(len(A)):

    for j in range(len(B[0])):

        for k in range(len(B)):

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

for r in result:

    print(r)

[114, 160, 60, 27]

[74, 97, 73, 14]

[119, 157, 112, 23]

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

**X = [[12,7],**

**[4 ,5],**

**[3 ,8]]**

**result = [[0,0,0],**

**[0,0,0]]**

**# iterating through rows**

**for i in range(len(X)):**

**# iterating through columns**

**for j in range(len(X[0])):**

**result[j][i] = X[i][j]**

**for r in result:**

**print(r)**

**[12, 4, 3]**

**[7, 5, 8]**

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

**try:**

**sentance = input("Enter the words: ")**

**words = [word.lower() for word in sentance.split()]**

**words.sort()**

**print("Sorted order of words:")**

**for word in words:**

**print(word, end = ' ')**

**except Exception as e:**

**print(e)**

**Enter the words: This is task from the Assignment**

**Sorted order of words:**

**assignment from is task the this**

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

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

**string = input("Enter the string: ")**

**outputString = ""**

**for char in string:**

**if char not in punctuations:**

**outputString += char**

**print(outputString)**

**Enter the string: Hello, World!!! <HTML> c++; {braces} \/!@##^&\*()( Ending the string now.**

**Hello World HTML c++ braces Ending the string now**