

A - 9.

Pseudocode:

Step 1: Start.

Step 2: Initialize 3x3 matrix using nested list.

Step 3: def addition:

Pass m_1 & m_2 matrix as parameters

$$m_3[i][j] = m_1[i][j] + m_2[i][j]$$

Step 4: def subtraction:

Pass m_1 & m_2 as parameters.

$$m_3[i][j] = m_1[i][j] - m_2[i][j]$$

Step 5: def Transpose:

Pass m_1 or m_2 as parameters.

$$m_3[i][j] = m_1[j][i]$$

Step 6: def multiplication:

Pass m_1 , m_2 as parameters.

iterate over rows of m_1

iterate over columns of m_2

$$m_3[i][j] += m_1[i][k] * m_2[k][j]$$

Step 7: Display all results.

Step 8: Stop.