IMPLEMENTATION SUMMARY OF PROGRAM

The program is divided into three main parts

1. Input to matrices
2. Functions
3. Result

**Part 1. INPUT TO MATRICES**

Part 1 contains two sub parts that is input to 2 matrices each with a different approach.

Approach 1

In this approach 1 an empty list by the name mat1 is declared/created. Then a for loop is used to take input which is stored in a list. This lit is then stored as sub list in mat1. After assigning the sub list loop starts again creating desired number of sub lists and storing them in mat1, giving it the form of a matrix. Now the list/matrix mat1 has stored data in the form of string, so it is then converted into data type integer(int) for applying different operators. Finally, the matrix mat1 is printed on screen.

Approach 2

In second matrix an empty list is created (mat2) which is then assigned desired number of sub lists through a for loop. Each element is then provided to sub lists through nested for loop. This time data is stored directly in the form of int, which is the major difference between two approaches/methods. Finally, the mat2 is printed.

Both matrices are printed through for loop to give them a matrix outlook.

**Part 2. FUNCTIONS**

In part 2 three functions are declared namely add (for addition), sub (for subtraction) and mul (for multiplication). These functions are made through for and nested for loops provided with operators.

**Part 3. RESULT**

The last part prints operation menu on the screen and asks user to input a value according to the given menu. Functions are called through given input value and the desired operation to matrices is printed on screen.

REFERENCE SITE: stackoverflow.com