ASSIGNMENT 7

MATRIX OPERATION

**Problem Statement:**-

Write a program in C++ using function template to read two matrices of different data types such as integers and floating point values and perform simple arithmetic operations on these matrices separately and display it.

**Learning Objectives** :-

i. Templates

**Theory** :-

Templates :-

Function Template :-

Class Template :-

**Related Mathematics** :-

//Input :- Mi = { m, r, c }

The set Mi represents matrix in which m is actual matrix and r and c are rows and columns respectively.

//Output :-

M = { M1, M2, M3, …………., Mn }

Where, M is a set of n matrices.

A = ( M, +, -, \*)

Where, A is a algebraic system in which the operations +, -, \* are performed on set M.

**Conclusion** :-

Using function template, we can perform matrix operations.