

# CS110: Computing Lab

Department of CSE

IIT Guwahati

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## Module 02 Stage 01 Exercise 02

1. Declare 27 variables of type `double`. These variables are declared to represent three matrices A, B and C of sizes 3X3. Let the matrix elements be represented by variables called `a11, ... a33, b11, ... b33, c11, ... c33`. You may assume that all elements are positive values. And, values of matrix A and B elements are all  $<100$ .
2. Read 9 + 9 floating point values defining two 3X3 matrices. Assign these values to the elements of matrices A and B.
3. Matrix C is computed as sum of matrices A and B.
4. Print the result as follows (taking note that all columns are aligned on their decimal-point):

1.1	1.2	1.3		11.0	12.0	13.0		12.1	13.2	14.3
2.1	2.2	2.3	+	21.0	22.0	23.0	=	23.1	24.2	25.3
1.1	1.2	1.3		11.0	12.0	13.0		12.1	13.2	14.3