

CS110: Computing Lab
Department of CSE
IIT Guwahati

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Module 02 Stage 01 Exercise 10

1. Declare 24 variables of type `double`. These variables are to represent matrix A of size 4X4, and two column matrices B and C. Let the variables be called a11, ... a44, b1, ...b4, and c1, ...c4. You may assume that elements of matrix A and vector B have values between -10 and +10 (excluding the two values at the end of the range.)
2. Read 16 + 4 floating point values to instantiate matrix A and vector B.
3. Compute matrix C elements as $A * B$.
4. Print the result in a style that resembles the following example. (Take note that all columns are aligned on their decimal-point):

```
1.1  1.2  1.3  1.1      3.2      +12.33
-2.1  2.2  2.3  1.2  *  2.1  =  -23.14
1.1  1.2  1.3  2.2      1.1      +12.10
1.1  1.2  1.3  2.2      2.2      +1.10
```