

CS110: Computing Lab
Department of CSE
IIT Guwahati

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Module 02 Stage 01 Exercise 03

Write a program that will solve simultaneous equations in 2 variables.

$$C_{11} * X + C_{12} * Y = C_1$$

$$C_{21} * X + C_{22} * Y = C_2$$

The coefficient in these equations are floating-point values. Your program must first read the coefficient as input. The input will be read as two lines of 3 values each.

An input value can be a positive or negative number less than 100 with precision of three decimal points after the decimal-point.

The program must then solve the equations for values of unknowns X and Y. Each value must be rounded to the nearest 3 places after the decimal-point.

The final output should be printed in the following fashion (where errors are values printed using conversion character G):

$$C_{11} * X + C_{12} * Y - C_1 = \text{error1}$$

$$C_{21} * X + C_{22} * Y - C_2 = \text{error2}$$