Change scale of Temperature

Assignment 0
Computer Programming
Due date: 4 September, 2018

Problem Statement: Pranay is doing research in his lab involving some chemical reactions,he has a thermometer which shows reading l1 at freezing point of water and u1 at boiling point of water.Now he needs to send the temperature to another organization where they use a thermometer which shows reading l2 at freezing point of water and u2 at boiling point of water.Help him change the readings so as to match with the scale used by the organization. Given l1,u1,l2,u2 and the initial temperature T measured, you need to give the corresponding reading in the second scale.

Input
Input has a single line with 5 spaced integers l1,u1,l2,u2,T respectively

Output
Output single decimal upto 2 decimal points.
Constraints
all the given numbers lie between -100000 and 100000
Sample Test Case

Input	Output
0 10 100 200 4	140.00