

PROJECT TITLE: SIMULTANEOUS EQUATIONS (GRAPH)

GROUP MEMBERS: RABIA IMRAN (21/F-BSAI-40)

UNAIZA KHALID (21/F-BSAI-11)

SUBJECT: OBJECT ORIENTED PROGRAMMING

SUBMITTED TO: SOFIA HAJANO

**PROJECT TITLE:**

* Simultaneous Equations (Graph)

**TOOLS:**

* Eclipse
* Java

**AIMS:**

* To solve two Simultaneous Equations by using Graph.

**OBJECTIVE:**

1. Find x-value at intersection point by setting y-values equal to each other.
2. Substitute x-value found in step 1 into one equation.
3. Double check that values are correct by substituting x-value from step 1 into the other equation.

**INTRODUCTION:**

* The graph of a linear equation **ax + by = c** is **a straight line**. Two distinct lines always intersect at exactly one point unless they are parallel (have the same slope). The coordinates of the intersection point of the lines is the solution to the simultaneous linear equations describing the lines.
* On occasions you will come across two or more unknown quantities, and two or more equations relating them.

**PROJECT FUNCTIONALITY:**

* In this program we will find two simultaneous equations graphically by plotting both equations. The solution where two lines intersect.
* Simultaneous equations models are a type of statistical model in which the dependent variables are functions of other dependent variables, rather than just independent variables.
* If the signs are different, add the equations together. If the signs are the same, subtract them. You can remember this as DASS – Different Add, Same Subtract.