Assignment 3: Solving linear algebra

Let us assume that there are X number of questions of True false type

Let us assume that there are Y number of questions of MCQ type

According to question

X + Y = 30 ………..I

4\*X + 9\*Y = 150 .……….II

We are using linalg from scipy to solve the set of equations with the help of OOP concept by creating class and defining one method to take the coefficients of the equations and another to solve for variables. This way if some other set of problem arise, we can solve that just by creating another object and assigning it to class.

The init method takes the values for each coefficient as an input to make it user-friendly for this use case (an example of abstraction), however the values could also have been obtained directly if we declare the variables in the method itself.

Please remember to put the values x1 = 1, y1=1, c1 = 30; x2 = 4, y2 = 9, c2 = 150 when declaring the function sloving() on your object, the computer will ask you for your the inputs to solve for the equation.

It will let you know to use solvit() on your object to obtain the values

From the solution we get

X = 24

Y = 6

Hence, there should be 24 True False type questions and 6 MCQ type questions.