#Importing Libraries

import numpy as np

from scipy import linalg

#Using OOP concept and declaring class solving and defining the methods

class solving():

def \_\_init\_\_(self):

print("Taking input values....")

self.x1 = input("Please enter the coefficient for X1 variable")

self.y1 = input("Please enter the coefficient for Y1 variable")

self.c1 = input("Enter the constant term for equation 1")

self.x2 = input("Please enter the coefficient for X2 variable")

self.y2 = input("Please enter the coefficient for Y2 variable")

self.c2 = input("Enter the constant term for equation 2")

print("Use solvit function to find the solution of your set of linear equations")

def solvit(self):

self.coefmatrix = np.array([[self.x1,self.y1],[self.x2,self.y2]])

self.constmat = np.array([self.c1,self.c2])

self.sol = linalg.solve(self.coefmatrix,self.constmat) #Method to solve for the equations

print(self.sol)

print("The solution for your equations are X = {}, Y = {}".format(self.sol[0], self.sol[1]))

#Assigning class to our object “obj1” here, it will take inputs for all the necessary parameters

obj1 = solving() #Remember to put the values x1 = 1, y1=1, c1 = 30; x2 = 4, y2 = 9, c2 = 150

#Calling the method solvit() to get the solution

obj1.solvit()