**CRAMER’S RULE:**

**CODE:**

**import numpy as np**

**eqs= int(input("how many equations?"))**

**col= list()**

**for i in range(0,eqs):**

**row = list()**

**for j in range(0,eqs):**

**z= "please the " + str(j+1) +" element of " + str(i+1) + " equation= "**

**y = int(input(z))**

**row.append(y)**

**col.append(row)**

**A= np.array(col)**

**print(A)**

**RHS\_COL = list()**

**for i in range(0, eqs):**

**j= "please the " + str(i+1) +" value of B= "**

**x= int(input(j))**

**RHS\_COL.append(x)**

**B = np.array(RHS\_COL)**

**print(B)**

**co\_matrix = round(np.linalg.det(A))**

**det\_matrix= list()**

**C= A.copy()**

**for i in range(0,eqs):**

**C[:,i] = B**

**print(C)**

**x= np.linalg.det(C)**

**print(x)**

**det\_matrix.append(x)**

**C=A.copy()**

**X = det\_matrix/co\_matrix**

**print(X)**

**OUTPUT:**

**how many equations?2**

**please the 1 element of 1 equation= 2**

**please the 2 element of 1 equation= 3**

**please the 1 element of 2 equation= 1**

**please the 2 element of 2 equation= -2**

**[[ 2 3]**

**[ 1 -2]]**

**please the 1 value of B= 5**

**please the 2 value of B= 6**

**[5 6]**

**[[ 5 3]**

**[ 6 -2]]**

**-28.00000000000001**

**[[2 5]**

**[1 6]]**

**7.000000000000001**

**[ 4. -1.]**