You are hired as a Data Scientist at a Multi-National Smartphone Company and have been tasked with designing a program to make sense of a Product Review Data obtained from a test bench qualitative survey. The test bench qualitative survey comprised of 5 persons who have been handpicked from different sections of the society and no social links amongst themselves. The persons were asked to judge the utility of a product by answering the questionnaires presented in front of them. The questionnaires are presented as below:

a. On a scale of 1-10, how important is the camera provided to you with the device?
b. On a scale of 1-10, how important is the amount of memory storage provided with the device?
c. On a scale of 1-10, how important is the size of the screen provided to you in the device?

The results of the questionnaire are presented below:

SL.No.	**Question 1 Rating (X0)**	**Question 2 Rating (X1)**	**Question 3 Rating (X2)**	**Bought ? (0-No, 1-Yes) (Expected_Y)**
1	2	5	5	0
2	3	6	8	0
3	4	9	10	1
4	7	5	1	0
5	10	0	10	1

Your senior reviewed the data and has asked you to write a program in Python.

a. Firstly, take the number of persons and their questionnaire responses as input from the user of the system.
b. Define variables W0, W1, W2, B.
c. Randomly set the values of W0, W1, W2 and B by values within 0 to 1 using random library.
d. Write a For Loop executing for 100 iterations and in each iteration, for each row of data:
    a. Calculate Actual_Y = W0 * X0 + W1 * X1 + W2 * X2 + B
    b. Calculate Activation = 1/(1+e ^ -Actual_Y)
    c. Calculate Difference = (Expected_Y – Activation)
    d. Update each W and B as
        i. W0 = W0+ 0.01*Difference*X0
        ii. W1 = W1+ 0.01*Difference*X1
        iii. W2 = W2+ 0.01*Difference*X2
        iv. B = B+0.01*Difference
e. After termination of the loop, print the final values of set of W and B. Also print the final values of Actual_Y for each row of data as obtained.
f. Plot the values of W's and B across separate graphs for each iteration using Matplotlib library.