1. In a laptop showroom there are laptops with RAM: 4GB, 8GB, and 16GB of different companies: A, B and C. Last week, the showroom sold 2, 1 and 3 laptops with 4GB RAM of companies A, B, and C respectively; 1, 2 and 1 laptops with 8GB RAM of companies A, B, and C respectively; and 2, 3 and 3 laptops with 16GB RAM of companies A, B and C respectively. The price of laptops with a particular GB Ram is the same irrespective of the company (i.e., laptop of companies A, B and C with 4GB RAM have the same price; similarly, laptop of companies A, B and C with 8GB RAM have the same price; and laptop of companies A, B and C with 16GB RAM have the same price). The owner of showroom earned ₹14, ₹17 and ₹18 (in ten thousand) in that week by selling laptop of companies A, B and C respectively. Using the above information, form the system of linear equations and find the matrix representation of the system of linear equations to find the price of 1 laptop with 4GB,

1 laptop with 8GM and 1 laptop 16 GB.

FT#

Informations)

46B 86B 166B 46B 2 1 3 86B 1 2 1 166B 2 3 3 FAK 12K 18K

> 4GB 86B 166B 2 3 - 5 + 6 + x 5

294 4 + 23 = 14 x + 2y + 3z = 17 3x+y+32=18

X= [y]

 $A = \begin{bmatrix} 2 & 1 & 2 \\ 81 & 2 & 3 \\ 3 & 1 & 3 \end{bmatrix} \qquad Ax = b$   $x = \begin{bmatrix} x_1 \\ y_1 \end{bmatrix} \qquad (2) \begin{bmatrix} 2 & 1 & 2 \\ 1 & 2 & 3 \\ 31 & 3 \end{bmatrix} \begin{bmatrix} x_1 \\ y_2 \\ 2 \end{bmatrix} = \begin{bmatrix} 14 \\ 17 \\ 18 \end{bmatrix}$ 

Must Revise