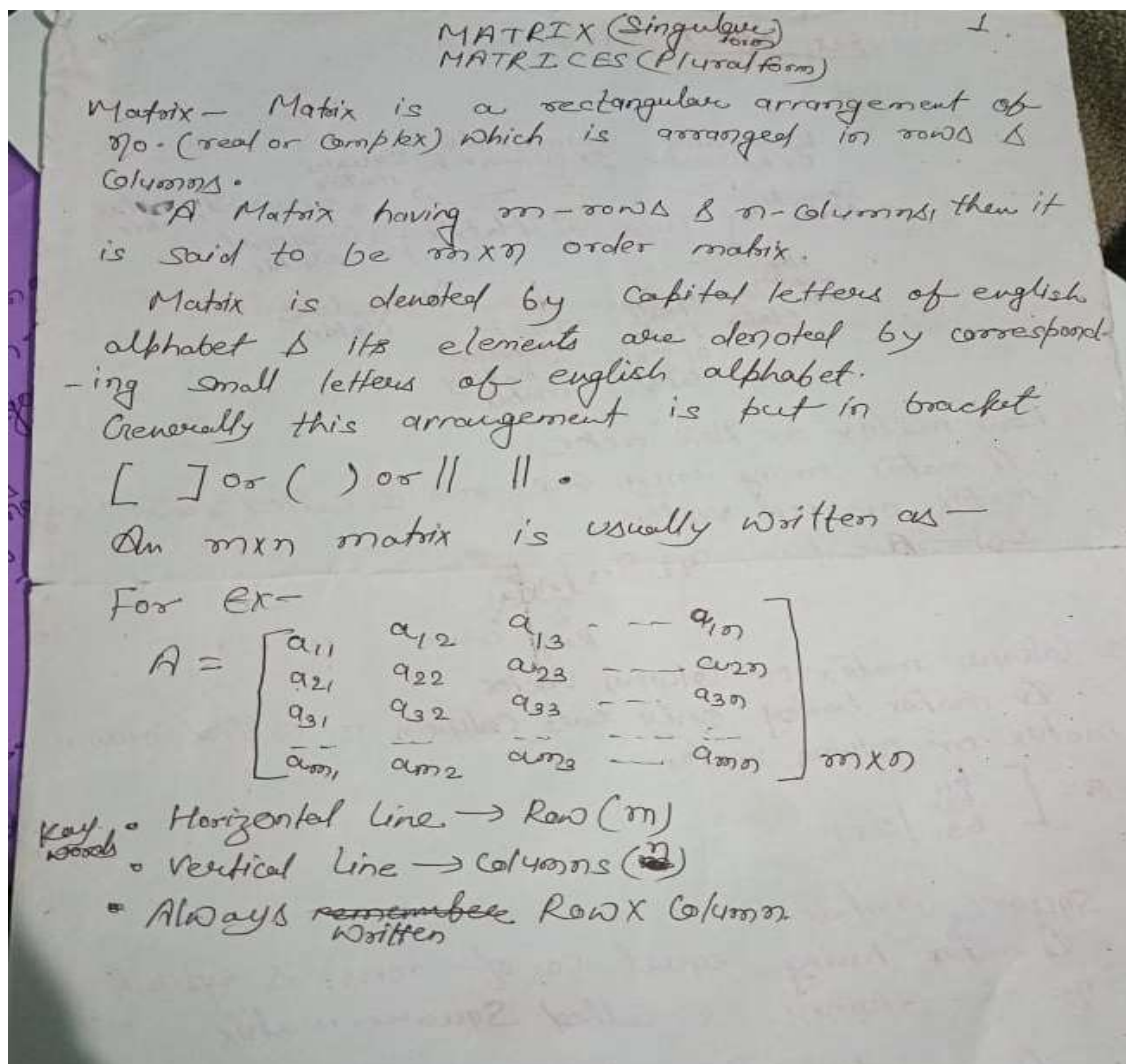
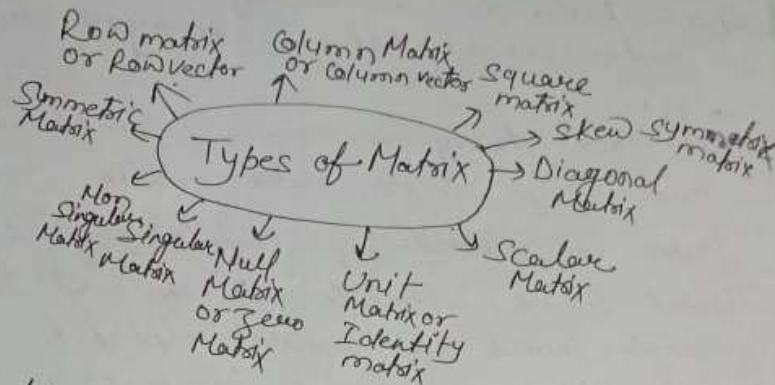


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Types of Matrix



1. Row matrix or Row vector

A matrix having only one row is called row matrix or row vector.

$$\text{Ex} - A = \begin{bmatrix} a_{11} & a_{12} & a_{13} \end{bmatrix} \begin{matrix} 1 \times 3 \\ \downarrow \\ \text{Row} \quad \text{Column} \end{matrix}$$

2. Column matrix or Column vector

A matrix having only one column is called column matrix or column vector

$$A = \begin{bmatrix} b_{11} \\ b_{21} \\ b_{31} \end{bmatrix} 3 \times 1$$

3. Square matrix -

A matrix having equal no. of rows & equal no. of columns is called Square matrix

$$A = \begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{bmatrix} 3 \times 3$$