Chapter # 01: Matrix and Determinant

# • DEFINITION OF A MATRIX:

A matrix is a rectangular array of numbers. The numbers are the entries or elements of the matrix.

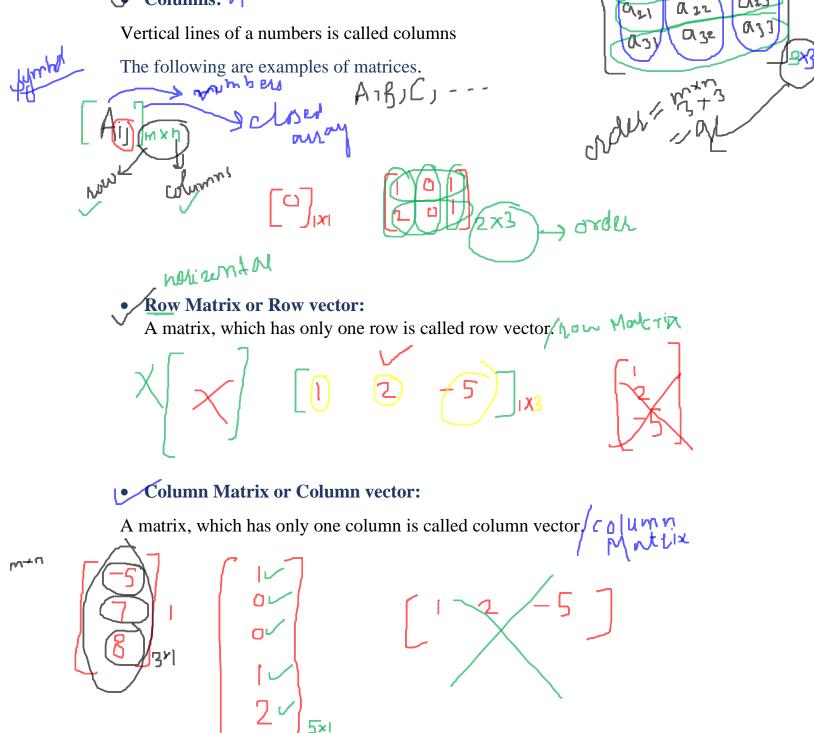
43

0123

## • Rows: $\simeq M$

Horizontal lines of a numbers is called Rows

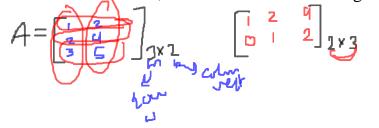
### ✓ Columns:



# column & you

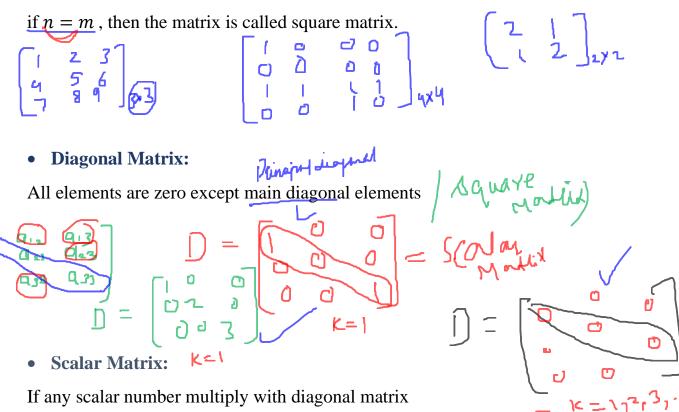
### **Rectangular Matrix:**

If  $\underline{h} \neq m$ , then the matrix is Rectangular matrix



column = row

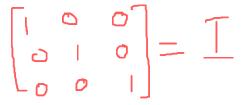
### **Square Matrix:**



 $\kappa D = K \begin{bmatrix} 0 & 0 \\ 0 & 2 \\ 0 & 3 \end{bmatrix} K^{3}$  ib  $K = k = 2 \begin{bmatrix} 2 & 0 \\ 0 & 4 \\ 0 & -6 \end{bmatrix}$  is k = k = 2

•/Unit matrix or Identity matrix:

If main diagonal element is 1 is called identity matrix



#### • Null or Zero Matrix:

Each element is zero is called zero matrix

• Equal Matrix: If two matrix has same order & same representation is called equal matrix

