

• A rectangular arrangement of  $m \cdot n$  numbers (real or complex) or expressions (real or complex valued), having m rows and n columns is called a matrix.  $(m, n \in N)$ 

$$A = \begin{bmatrix} a_{11} & a_{12} & a_{13} \cdots a_{1n} \\ a_{21} & a_{22} & a_{23} \cdots a_{2n} \\ \vdots & \vdots & \vdots \\ a_{m1} & a_{m2} & a_{m3} \cdots a_{mn} \end{bmatrix}$$
Rows
Columns

• An element of a matrix is denoted by  $a_{ij}$ : Element of  $i^{th}$  row &  $j^{th}$  column.