

## MATRIX

MATRIX : A matrix consists of rows and columns.  
These rows and columns define the size or dimension of a matrix.

### Types of Matrix

- :-
- (i) Row Matrix
  - (ii) Column Matrix
  - (iii) Null Matrix
  - (iv) Square Matrix
  - (v) Diagonal Matrix
  - (vi) Upper triangular matrix
  - (vii) Lower triangular matrix
  - (viii) Symmetric matrix
  - (ix) Antisymmetric matrix

### Example of Matrix

$$\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}_{2 \times 2}$$

In above matrix, there is two rows and two columns.

$$\begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix}_{2 \times 3}$$

In above matrix, there is two rows and three columns.