

## Types of Matrix:

- Triangular Matrix :

- (ii) Lower Triangular Matrix

A matrix in which all the elements above the principal diagonal are zero is called a lower triangular matrix

$$P = [a_{ij}]_n \text{ such that } a_{ij} = 0, \forall i < j$$

Example:

$$A = \begin{pmatrix} -7 & 0 & 0 \\ 3 & 4 & 0 \\ -2 & 10 & 0 \end{pmatrix} \quad B = \begin{pmatrix} -1 & 0 & 0 & 0 \\ 0 & 4 & 0 & 0 \\ -3 & 8 & 6 & 0 \end{pmatrix}$$