## Types of Matrix:

- Triangular Matrix :

  $(i)$ Upper Triangular Matrix

  A matrix in which all the elements below the principal diagonal are zero is called an upper triangular matrix.

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

  Example:

$$A = \begin{pmatrix} 1 & 3 & 0 \\ 0 & -4 & 9 \\ 0 & 0 & -5 \end{pmatrix} \qquad B = \begin{pmatrix} 2 & -3 & 5 & 1 \\ 0 & 3 & 6 & -9 \\ 0 & 0 & -5 & 10 \end{pmatrix}$$

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