



Types of Matrix:

- Scalar Matrix : A diagonal matrix whose all diagonal elements are equal is called scalar matrix

$A = [a_{ij}]_n$ is a scalar matrix if

$$a_{ij} = 0, \forall i \neq j \quad a_{ij} = k, \forall i = j$$

Example:

$$A = \begin{pmatrix} a & 0 \\ 0 & a \end{pmatrix}$$