Types of matrices:
Square matrin. A matrin is called Equare matrix it if
$\begin{bmatrix} q_{11} & q_{12} \\ c_{12} & q_{12} \end{bmatrix} \begin{bmatrix} q_{11} & q_{12} & q_{13} \\ q_{21} & q_{22} & q_{23} \\ q_{31} & q_{32} & q_{33} \end{bmatrix}$
Diagonal Mutrix. Propries all whose element are zerol except
diagonal element is called diagonal matrix
Scalar Matsix: A diagonal matrix all of whose diagonal element are jum is called scalar matrix
Adentity matrin - A scalar matrin all of whose diagonal element is anity (1) called Adentity / unit matrin
Mull matrin or zeromatrin A matrin 15 culted Mullmatrin it all of its element
$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}_{2\times 3} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}_{2\times 2}$

Row Motion A matrix which have a single you is called your motif 3 4]_{1×4} Column Matrix which same a single column is called column matrix from Symmetric Mother A sware makin A is called symmetric matrin it --A=A' or and = and a12 = a21 $A = \begin{bmatrix} 1 & 3 & 4 \\ 3 & 8 & 6 \\ 4 & 6 & 9 \end{bmatrix} \quad A' = \begin{bmatrix} 1 & 3 & 4 \\ 3 & 4 & 6 \\ 4 & 6 & 9 \end{bmatrix}$ 8keul Symmetric Matrix A square matrin A is called skew Symmetric it A = -A' DT asj = -931 $0_{12} = 3$ 0.21 = -3