

Subject:-----

Date:-----

$$A = \begin{bmatrix} 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 1 & 2 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 1 & 3 & 2 & 1 & 0 & 0 & 0 & 0 & 1 & 0 \\ 1 & 2 & 4 & 2 & 1 & 0 & 0 & 0 & 0 & 1 \end{bmatrix}$$

$$\rightarrow \begin{bmatrix} 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & -1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & -1 & +3 & -2 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 & 1 & -4 & +5 & -2 & 1 \end{bmatrix} \xrightarrow{A^{-1}} \begin{bmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & -2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & 3 & -2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & -2 & 4 & -2 & 1 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$