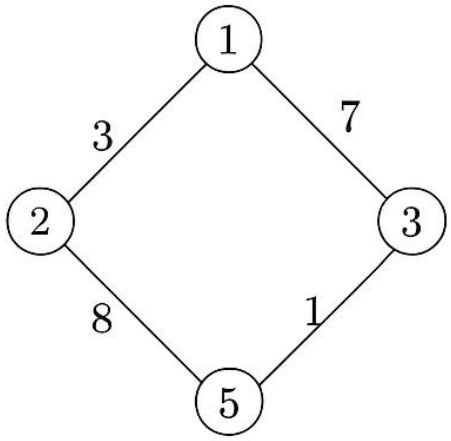
Assignment

Discrete Mathematics

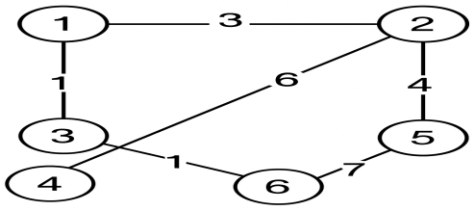
1 Floyd–Wahrshall algorithm

$$W = \begin{pmatrix} 0 & 3 & \infty & 7 & \infty \\ 8 & 0 & 2 & \infty & \infty \\ 5 & \infty & 0 & 1 & \infty \\ 2 & \infty & \infty & 0 & 1 \end{pmatrix}$$

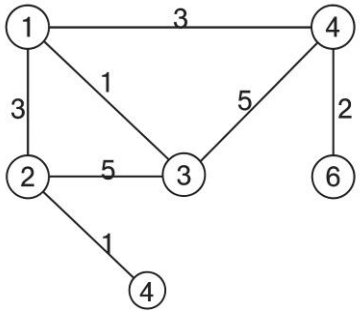


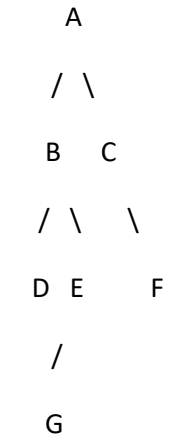
(a) Run the Floyd–Warshall algorithm and give the final shortest-path distance matrix D.

2. Find the MST using prims algorithm



3.Find the MST using Kuruskal Algorithm.





Give Preorder, Inorder and Postorder traversals.