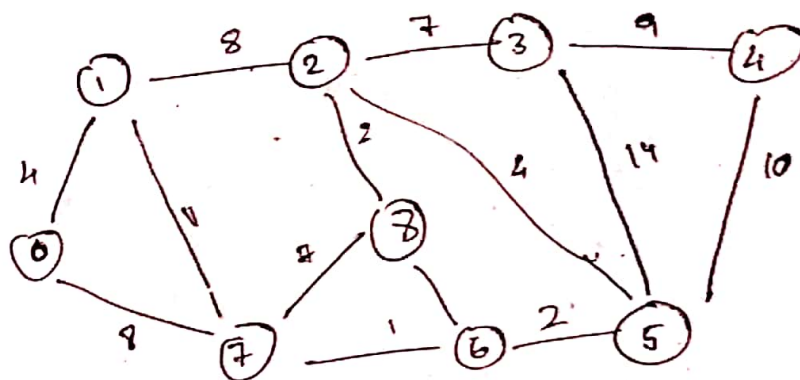


# Kruskal's Algo



- I) In ascending order:

Vertices: 6-7    5-6    2-8    2-5    0-1    6-8    2-3    8-7  
                  1        2        2        4        4        6        7        7

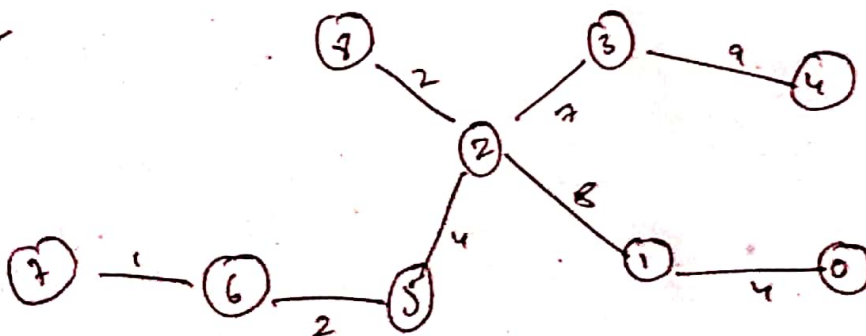
1-2    0-7    3-4    4-5    1-7    3-5  
       8       8        9    10       11       14

II) Removing cycles.

9-1 = 8 edges are selected ( $\because$  Total vertices = 9)

Selected: 6-7    5-6    2-8    2-5    0-1    2-3    1-2    3-4  
 Rejected: 6-8    8-7    0-7    4-5    1-7    3-5

Graph -



$$\begin{aligned} \text{Min Weight} &= 1 + 2 + 2 + 4 + 4 + 7 + 8 + 9 \\ &= 37 \end{aligned}$$