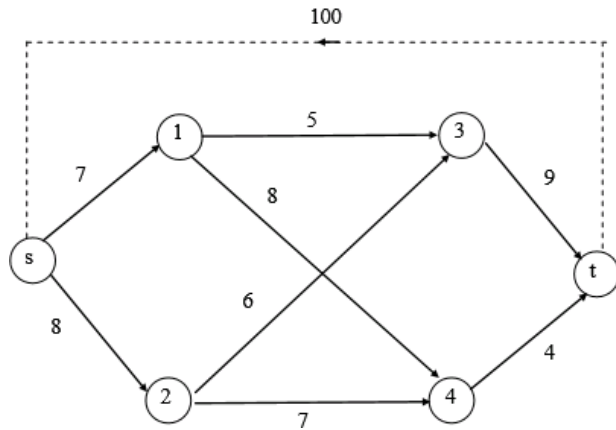


Step-1

Let us consider the network shown below.



In the above figure, number shown along with the path represents the length of the path.

Step-2

Let us find the shortest path between s and t .

For the shortest path, select the path from $4-t$ (with length 4), instead of $9-t$ (with length 4).

And to reach the node 4, we can select either $s-1-4$ or $s-2-4$

Therefore, the shortest path from $s-t$ is $s-1-4-t$ or $s-2-4-t$

Step-3

The minimum spanning tree of the network is shown below.

