

ASSIGNMENT (DAY 8)

1) TREE TRAVERSAL:

a) IN ORDER TRAVERSAL:

$\Rightarrow A \rightarrow - \rightarrow C \rightarrow 1 \rightarrow 5 \rightarrow * \rightarrow 2 \rightarrow + \rightarrow D \rightarrow *$
 $\rightarrow 5 \rightarrow \% \rightarrow 4$

b) PRE ORDER TRAVERSAL:

$\Rightarrow + \rightarrow - \rightarrow A \rightarrow * \rightarrow / \rightarrow C \rightarrow 5 \rightarrow 2 \rightarrow \% \rightarrow * \rightarrow D$
 $\rightarrow 5 \rightarrow 4$

c) POST ORDER TRAVERSAL:

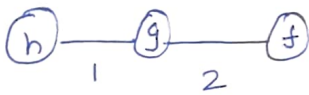
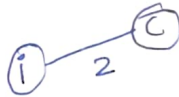
$\Rightarrow A \rightarrow C \rightarrow 5 \rightarrow / \rightarrow 2 \rightarrow * \rightarrow - \rightarrow D \rightarrow 5 \rightarrow * \rightarrow 4$
 $\rightarrow \% \rightarrow +$

2) MINIMUM SPANNING TREE:

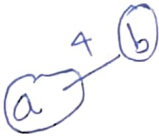
Step 1:



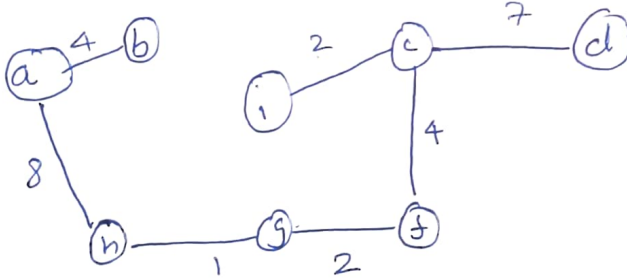
Step 2:



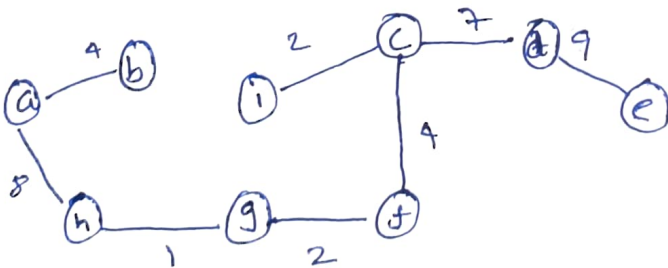
Step 3:



Step 4:



Step 5:



Total weight of MST = 37