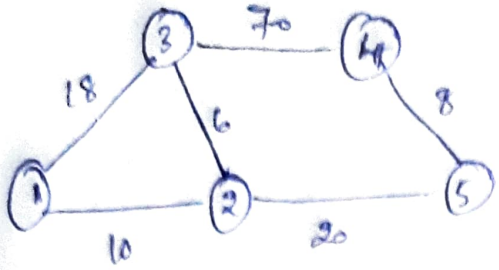
Prim's algo Implementation

(1)



Step① → pick minimum cost edge ; $e=(i,j)$ which is

$TE = [e]$, $TV = \{3, 2\}$

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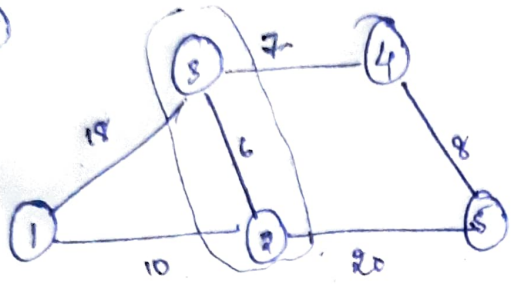
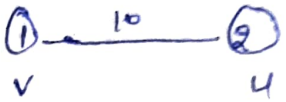
(2)



Step② → pick edge $(u,v) \rightarrow e_1$ where u in Tv and v not in Tv such that (u,v) have minimum cost



$TE = [e, e_1)$ This will be included

$TV = \{3, 2, 1\}$ in tree

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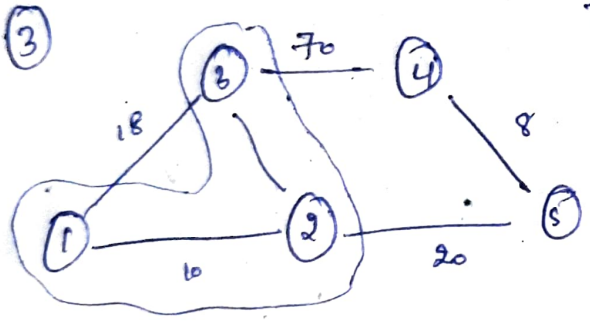
(3)



Repeat step② procedure $(u,v) = e_2$

$TE = [e, e_1, e_2]$

$TV = \{3, 2, 1, 5\}$

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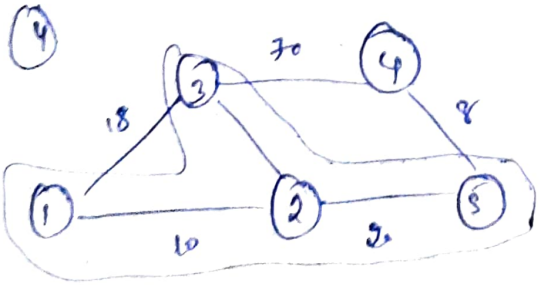
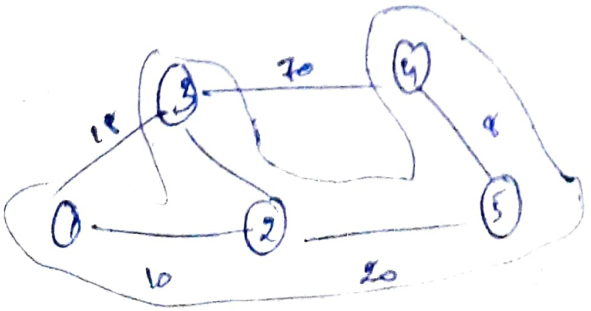
(4)



Repeat step② procedure $(u,v) = e_3$

$TE = [e, e_1, e_2, e_3)$

$TV = \{3, 2, 1, 5, 4\}$



minimum Spanning tree