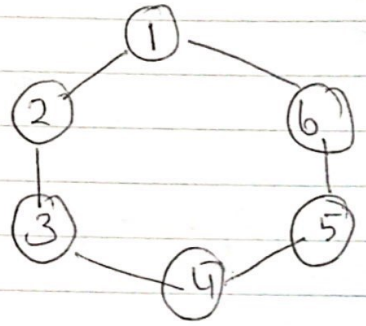
Minimum cost Spaning Tree.



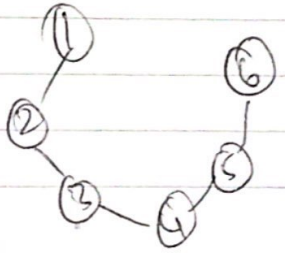
Graph contains a set of vertices and edges

$G = (V, E)$

$V = \{1, 2, 3, 4, 5, 6\}$ = Set of vertices

$E = \{(1,2)(2,3)(3,4)(4,5)(5,6)(6,1)\}$

Spaning Tree I should take all vertices



$|V| = n = 6$

$|V| - 1 = 5 \Rightarrow$ Edges.

$S \subseteq G$

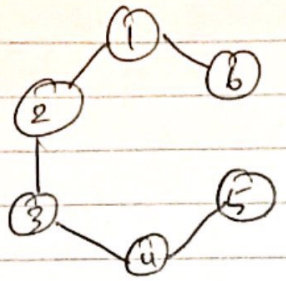
$S = (V', E')$

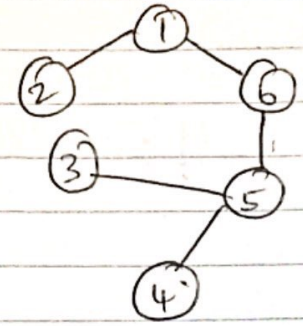
$V' = V$

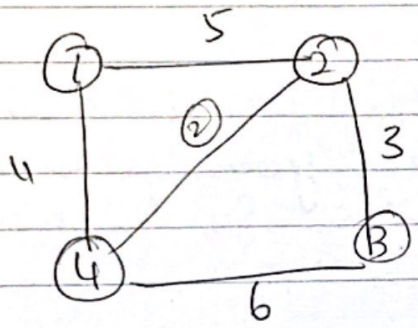
$E' = |V| - 1$

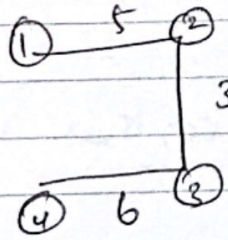
$|E| = 6$.

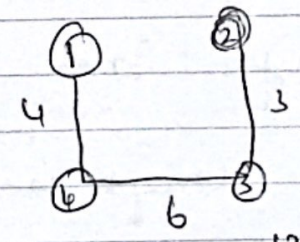
$6C5 = 6$ different spanning tree.

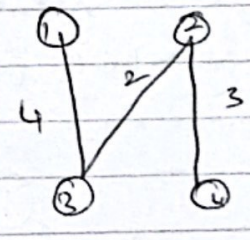












Greedy method to find Min Cost spanning tree.