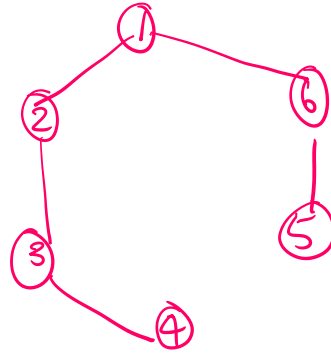
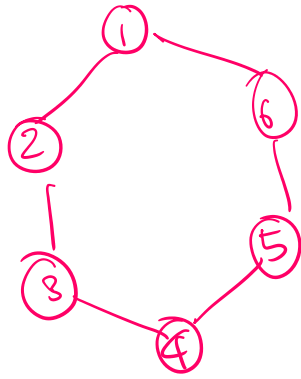
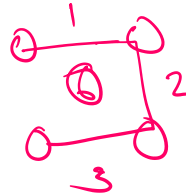
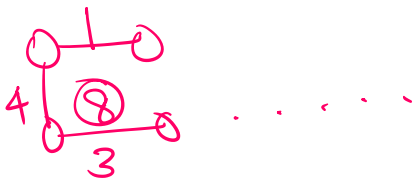
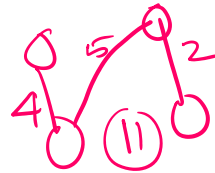
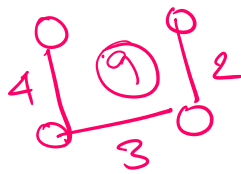
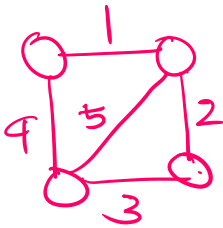


Spanning Trees

Monday, 5 June 2023 9:09 pm



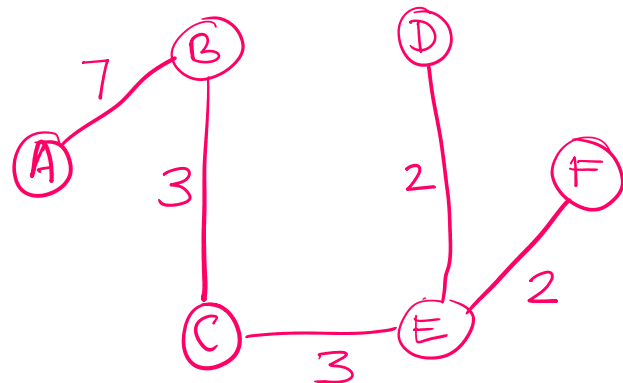
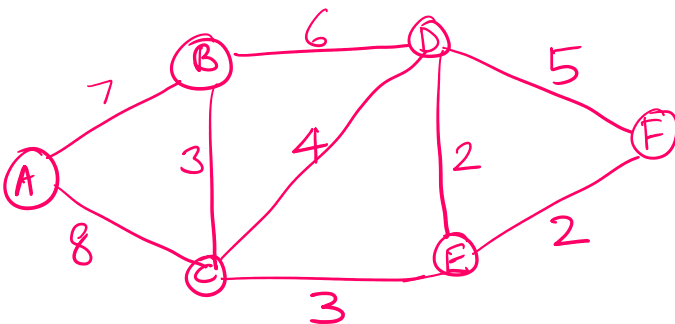
Minimum Spanning tree (MST)



Prim's Algo.

Spanning Tree

#Edges = 5



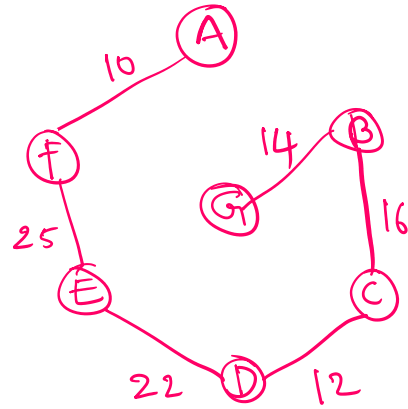
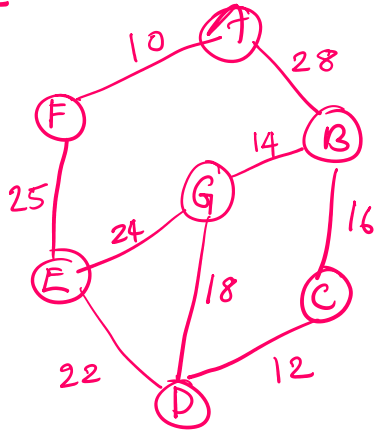
B - D \Rightarrow 6
A - C \Rightarrow 8

Cost = 17

$B-D \Rightarrow 6$
 $A-C \Rightarrow 8$
 $E-D \Rightarrow 2$
 $C-D \Rightarrow 4$
 $F-D \Rightarrow 5$

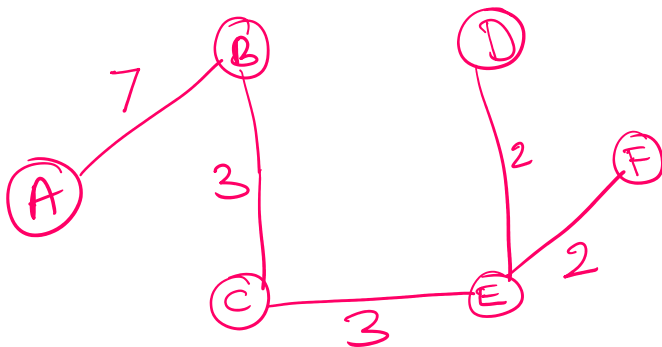
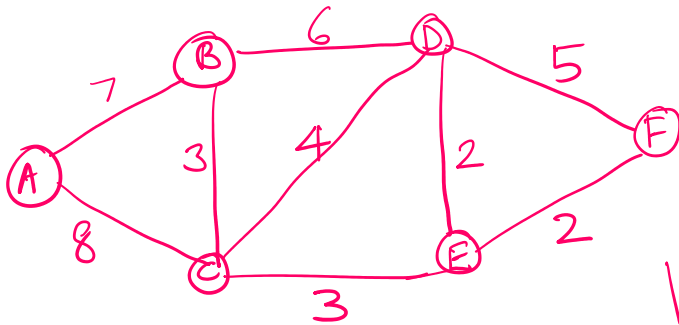
11

Eg:- 2



Cost = 99

Kruskal's Algo



$|V| = 6$
 $\#Edges = 5$

17

$\checkmark EF \Rightarrow 2$
 $\checkmark ED \Rightarrow 2$
 $\checkmark BC \Rightarrow 3$
 $\checkmark CE \Rightarrow 3$
 $\checkmark CD \Rightarrow 4$
 $\checkmark DF \Rightarrow 5$
 $\checkmark DB \Rightarrow 6$
 $AB \Rightarrow 7$
 $AC = 8$

Eg (2)

