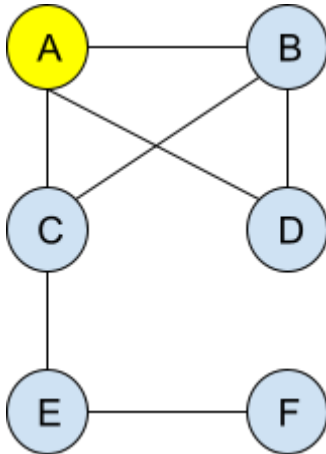1. A minimum spanning tree is a special case of a graph in which the graph is connected -there is a path from any vertex to any other- and has no cycles. Additionally, a vertex is chosen to be a root node.

Example:
Full Graph:

Minimum Spanning Tree **(DFS)**:
- Notes
    - Could be created from the full graph using DFS or BFS
    - Cycles are removed
    - One full graph several possibilities of spanning tree (only one it provided below)
    - Subgraph has |V| - 1 edges