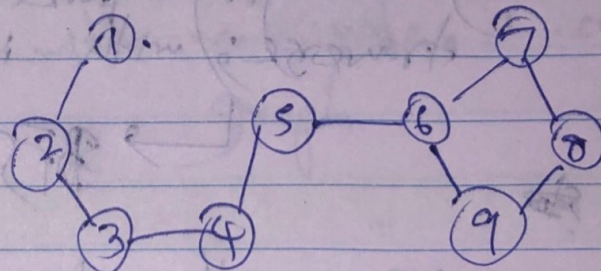
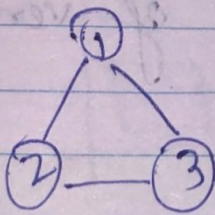


* Redundant Connection:



use union find to check whether in same graph or not. If in same mark the edge as redundant edge.