#TASK 1

Hene 9 did topological sont wing DFs. For DFs. 9 declared a [visited] array with.
"True" value of len of the node number. Then 9 added a set called "cycle". This set hept track of cycle. Atte At the begining of every recursive DFs step 9 added the node in cycle then later checked if the neighbors of the node is in the cycle of the node is in the cycle of the neighbors are there it determines a cycle and the loop breaks And 9 hept the topological ordered elements in

Some also as the before I used, in degree dictionary to keep track of the indegree of the graph. In this task luchily I implemented "raine Value Error" syntays to aheak the cycle in the graph. Hene I used a quove to keep my bys iteration.

a stack which I popped later.

- D'Check indegree order of all the nodes of the graph.
- Then make a queiere with those nodes who have 'O' in degree order.
- (IV) I start poping the stack elements from the first one and then look for the neighbor of them and I keep
 - doing this till the stack gets empty.

 V) Finally I return the topo-ordan.

#tork 3

- (1) used leosaraju algo here
- (1) In the first step I tran a dfs to make a stack according to the order of dfs visit transpose (11) Then I areated & transpose graph.
- (14) Then I ran second DFs algorithm
 to find the strongly connected
 Components.