Tasu - 1 (a)

To stone the graph, had to use 2D annay to simulate a matrix. It there are R- nows and o- rolumns, for Traversing the whole matrix, Time complexity ((nxc). Space complexity ((nxc). Accessing any individual cell is 0(1).

Task - 1 (b)

Here, took help from the Linked hist data structure. The connection from one node to another node and their weight stoned as a tuple in the List.

Task-2

Breadth . first search technique of graph traversal used tene. First the source insented in the queue. Then poped from the queue and add this adjurcery reighbon in the quere. Reaguted the process exantill givene becomes empty.

Depth first seasech forchrique used here to traverse the graph. Maintianed a stack. Pur Is Tritially pushed a value in the stack and goes at value in the stack and goes at its depth untill no where to go. Then poped and thy for the previous Then poped and thy for the previous node. Done it necursively untill the stack is empty

Use of DFS technique to find exicincle.

Stunting from a node, make it

Stunting from a node, make it

visited and path True. And

visited and path True. And

white backtracking of make the

white backtracking of make the

path false. If a node is visited

path false. If a node is visited

and it's path is True that

and it's path is True that

the graph.

Tasu 5

To find the shortest path from node 1 to a given destination used bts technique and the maintained two extra annay with level and parent patter with visited annay. After that visited annay. After that back tracked the path and get the pescelti

Tosu 6

To solve this problem used BFS transitive. If there's and all with teahrithe. If there's and all with the on visited ignored that, through And iteratively BFS through the whole matrix and mainted the whole matrix and mainted a array termy BFS and perhanded a array termy BFS and perhanded the maximum star value from the