Lab Assignment 4

Task 1

(a) First made ~~an~~ an ~~a~~ 2 d adjency matrix ~~consisting~~ consist only ~~0~~ value 0. Then, ~~Every edge's~~ Every edge's equivalent index ~~was~~ replaced with the edges weight.

(b) First make a array for every vertex. Then. A ~~Add~~ append the ~~vertex~~ edge with his weight as tuple in the vertex's corresponding index.

Task-2

First make a queue. Then, store the first element ~~of~~. the graph. Then, dequeue the element ~~and~~ and enqueue every element which is connected to that ~~g~~ vertex and also not visited before. Do this until queue is empty.

Task 3

Start from vertex-1, If you find a edge that is not ~~vis~~ visited already, explore again from that vertex. Do this until every vertex is visited.

Task-4

After ~~re~~exploring the graph with dfs, if one back edge ~~is~~ found, then graph has cycle. Otherwise No..

Task ~~#~~5

In bfs, we explore the ~~vertex~~ direct connected with the present vertex. ~~If we~~ So, I have track down the distance and ~~time~~ with two arrays and ~~find~~ found the shortest path.

Task 6

While using BFS, If we find '#', we won't explore any of ~~the~~ the adjacency value. Otherwise If we find 'D', we will count 1 and ~~if we find~~ then explore. Again, If we find dot, we will just explore.