Learning4help by Waqas

Asslam-o-Alaikum! In this file we'll provide you CS502 quiz 4 2023 Important Finalterm MCQs. Must Prepare Before Finalterm Exams. Verify Answers yourself too. If you found mistake then inform me.

If you found mistake then let us know.

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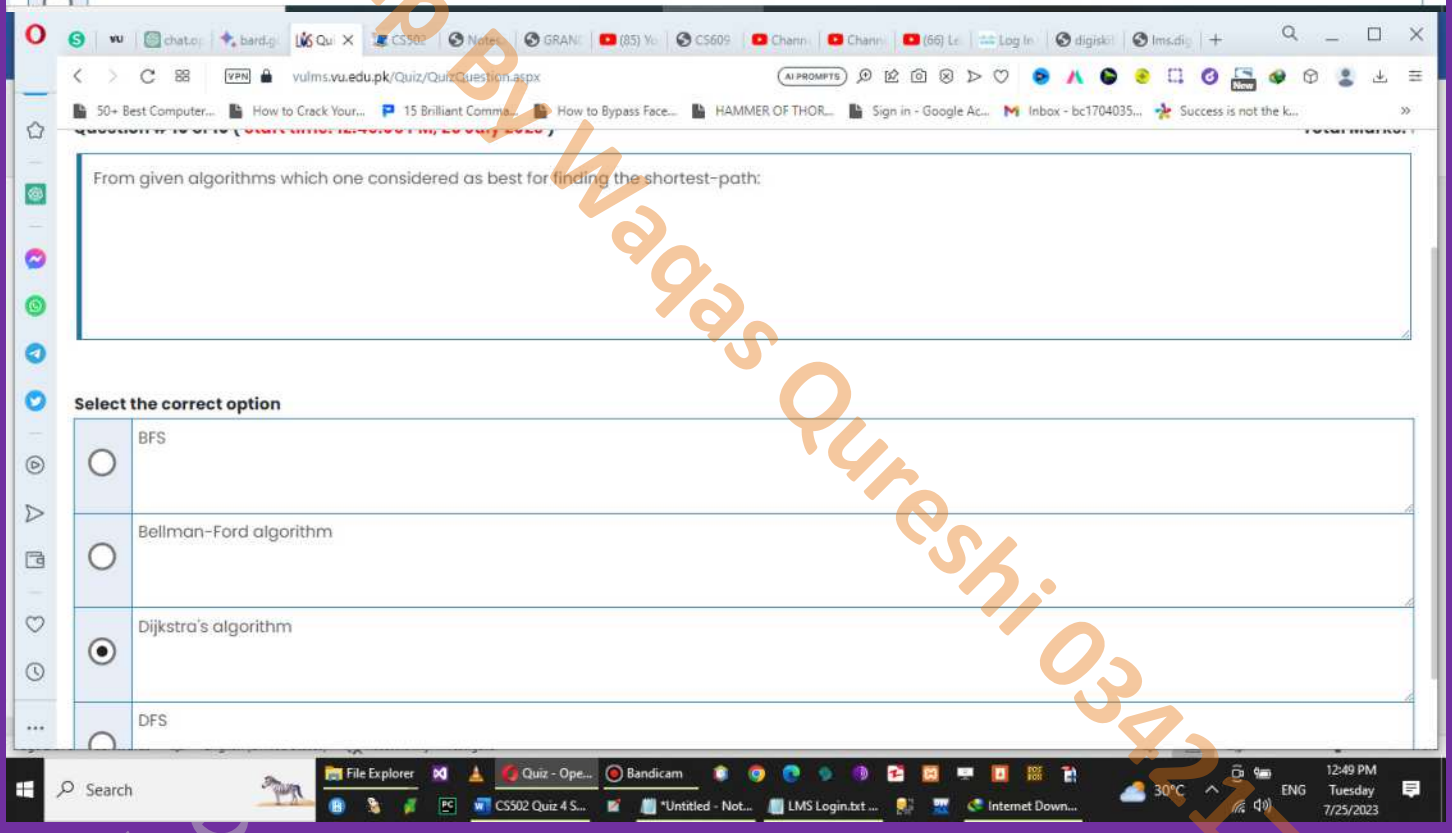
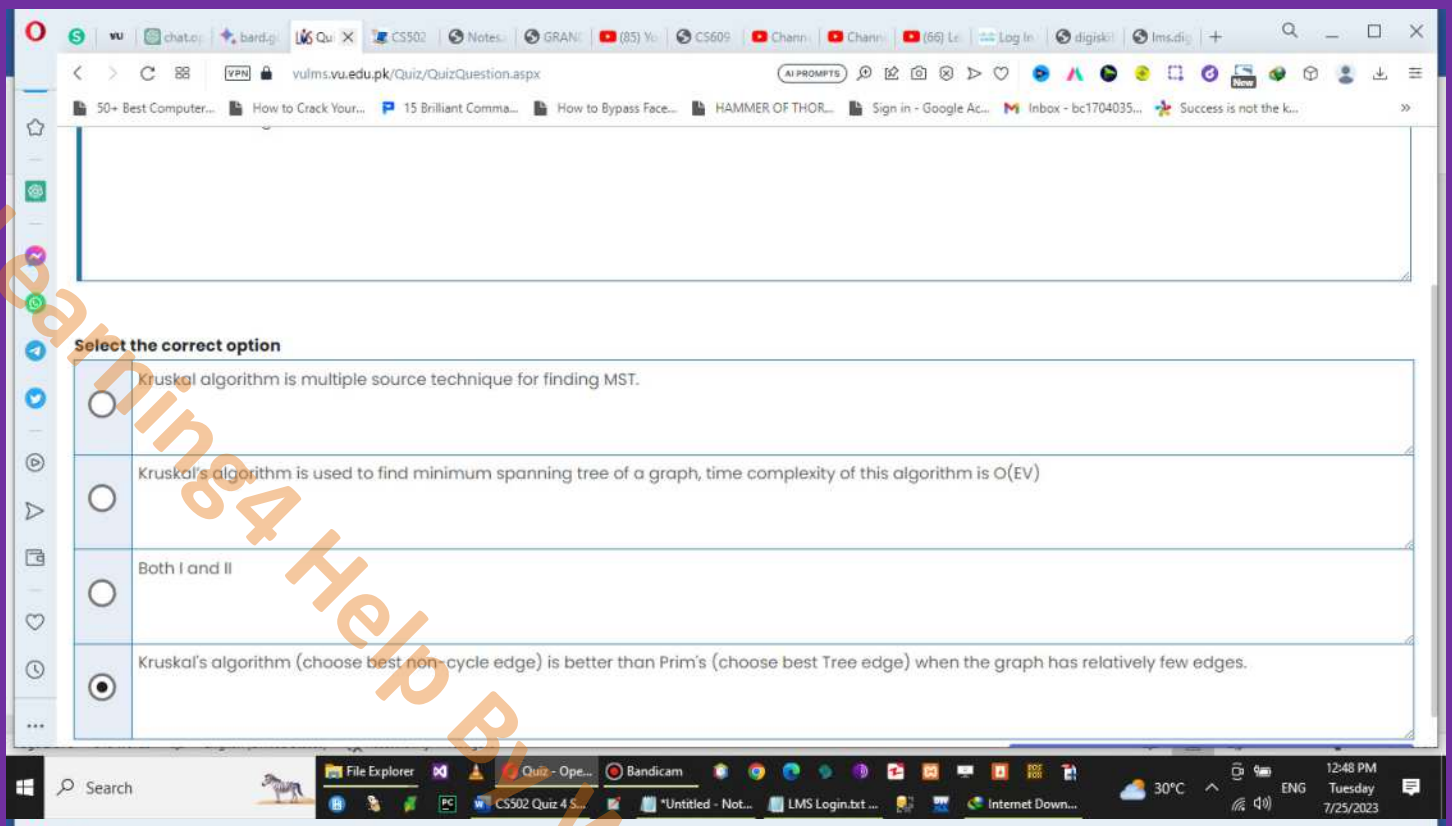
Question # 1 of 10 (Start time: 01:26:42 PM, 24 July 2023) **Total Marks:** 1

Dijkstra's Algorithm is used to solve_____problems.

Select the correct option

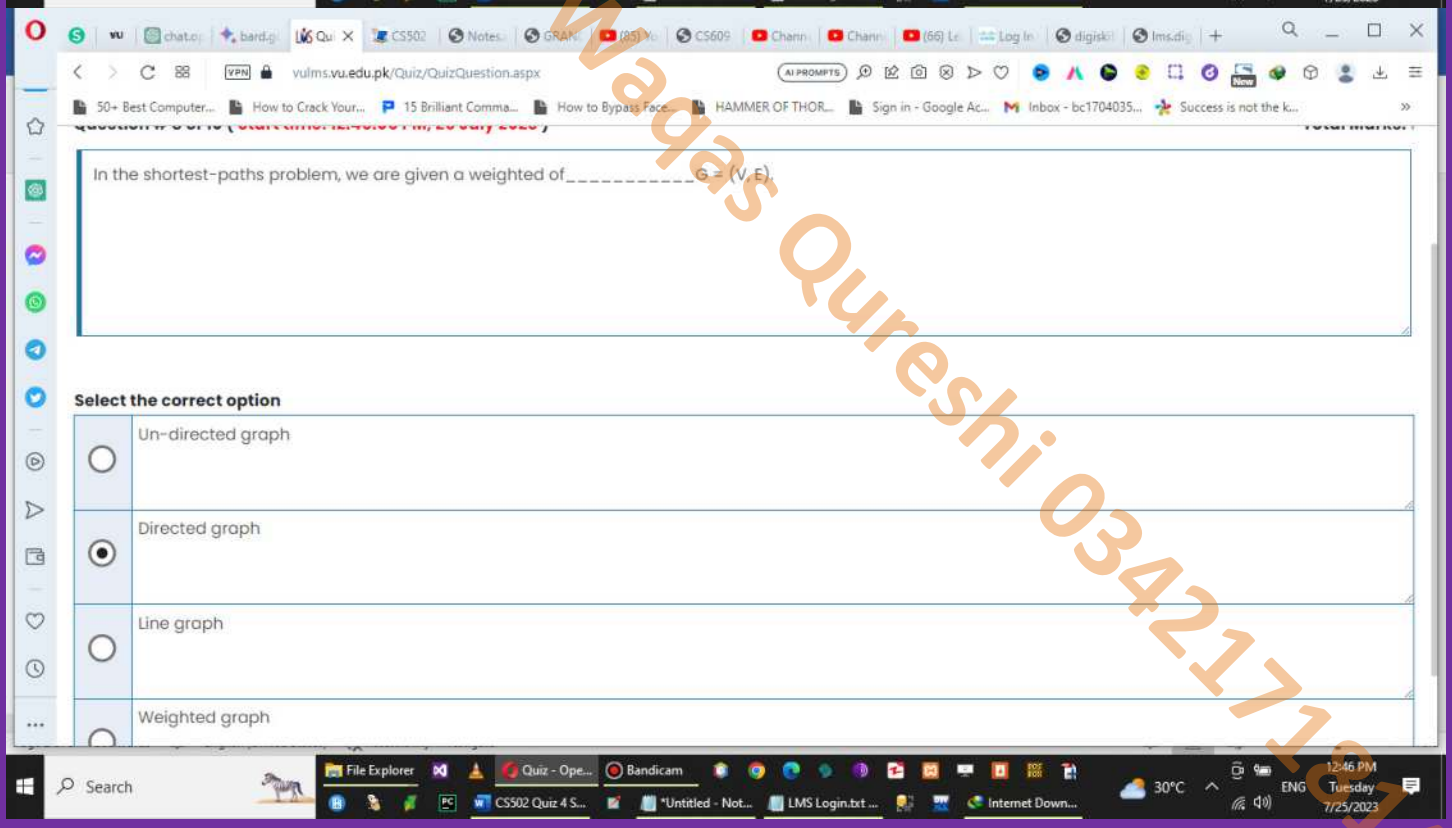
- ○ All-pair shortest path
- ◉ Single-source shortest path
- ○ Sorting & searching
- ○ Multi-source shortest path





Select the correct option

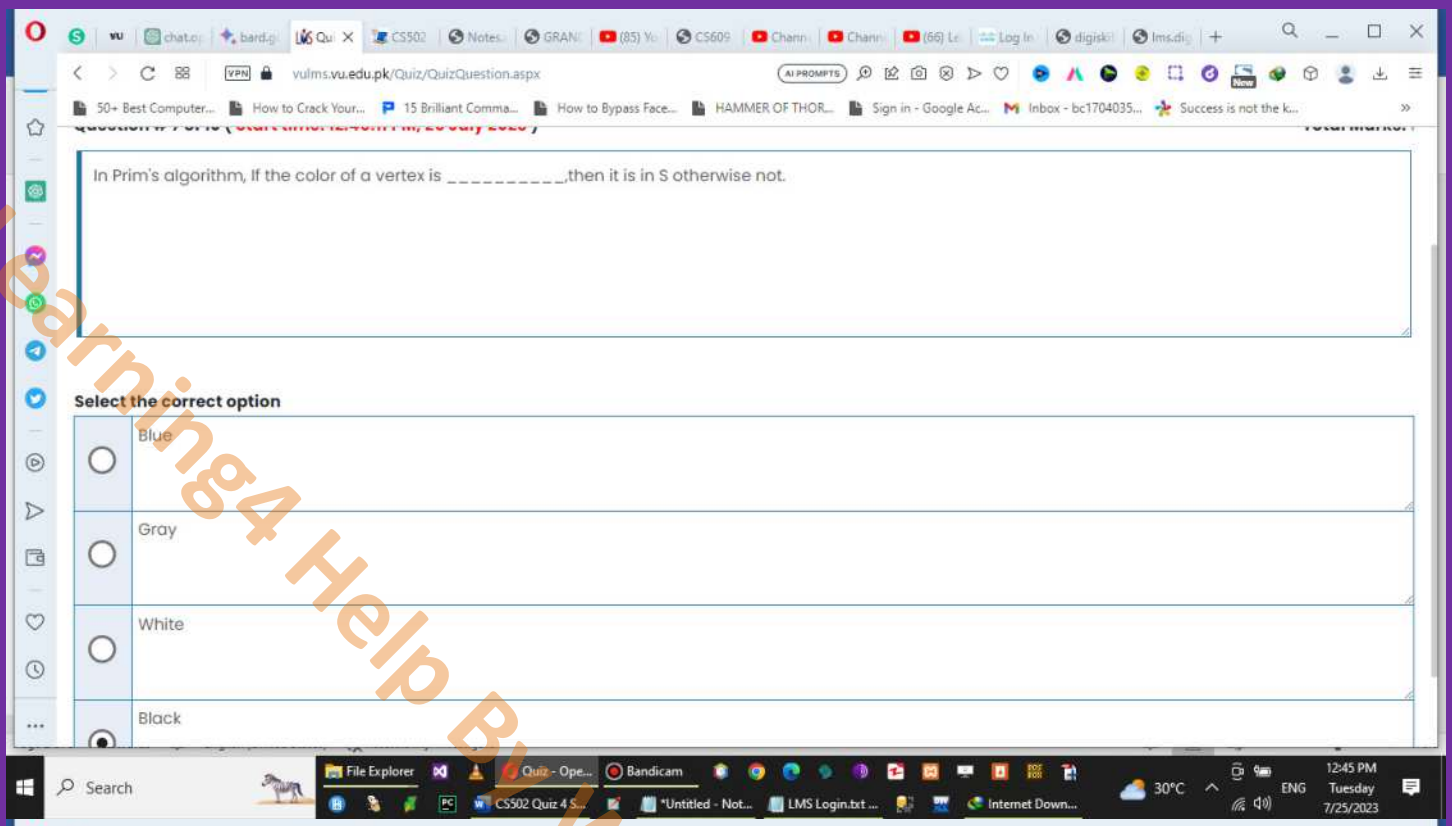
- Kruskal algorithm is multiple source technique for finding MST.
- Kruskal's algorithm is used to find minimum spanning tree of a graph, time complexity of this algorithm is O(EV)
- Both I and II
- Kruskal's algorithm (choose best non-cycle edge) is better than Prim's (choose best Tree edge) when the graph has relatively few edges.

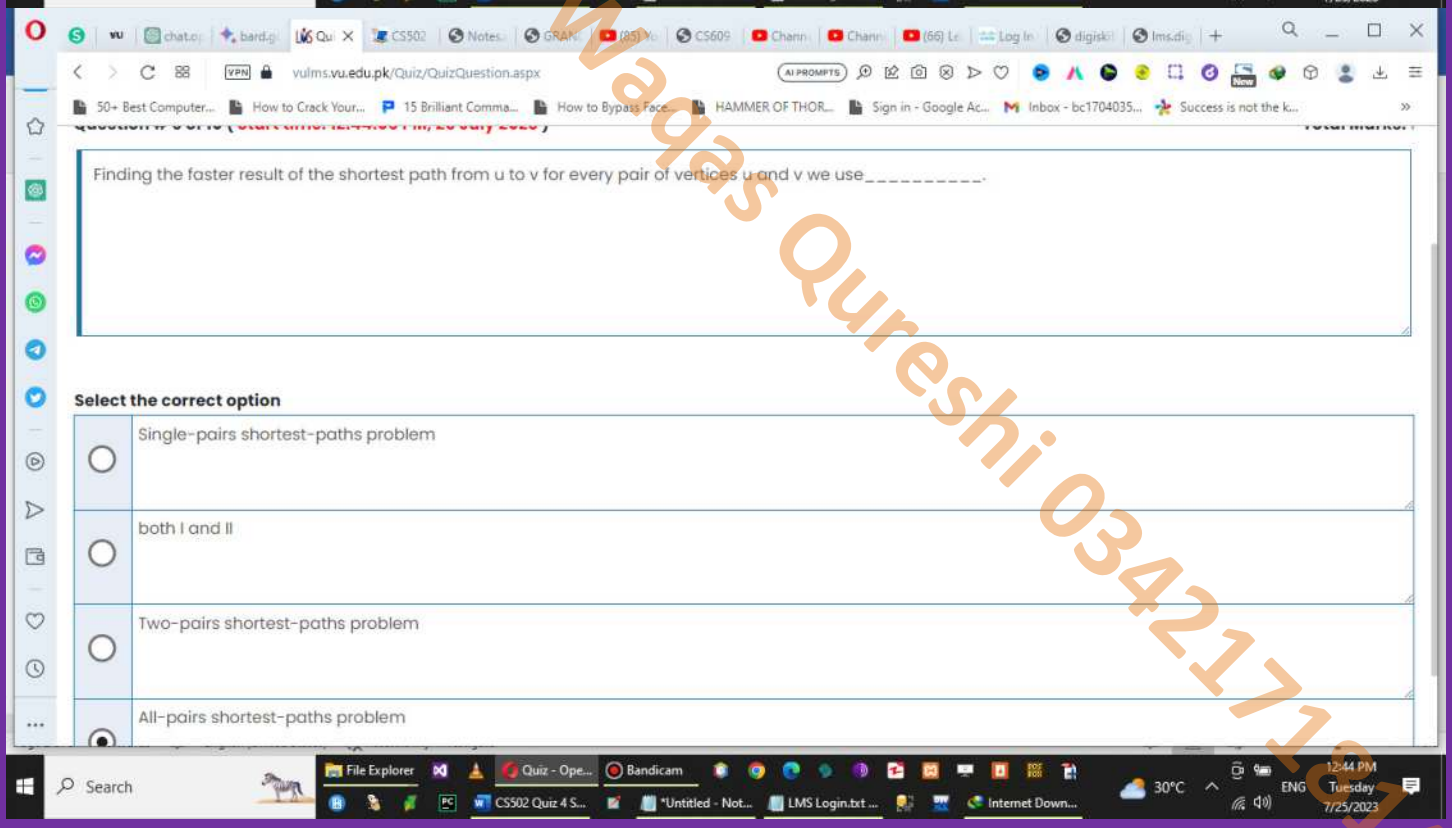


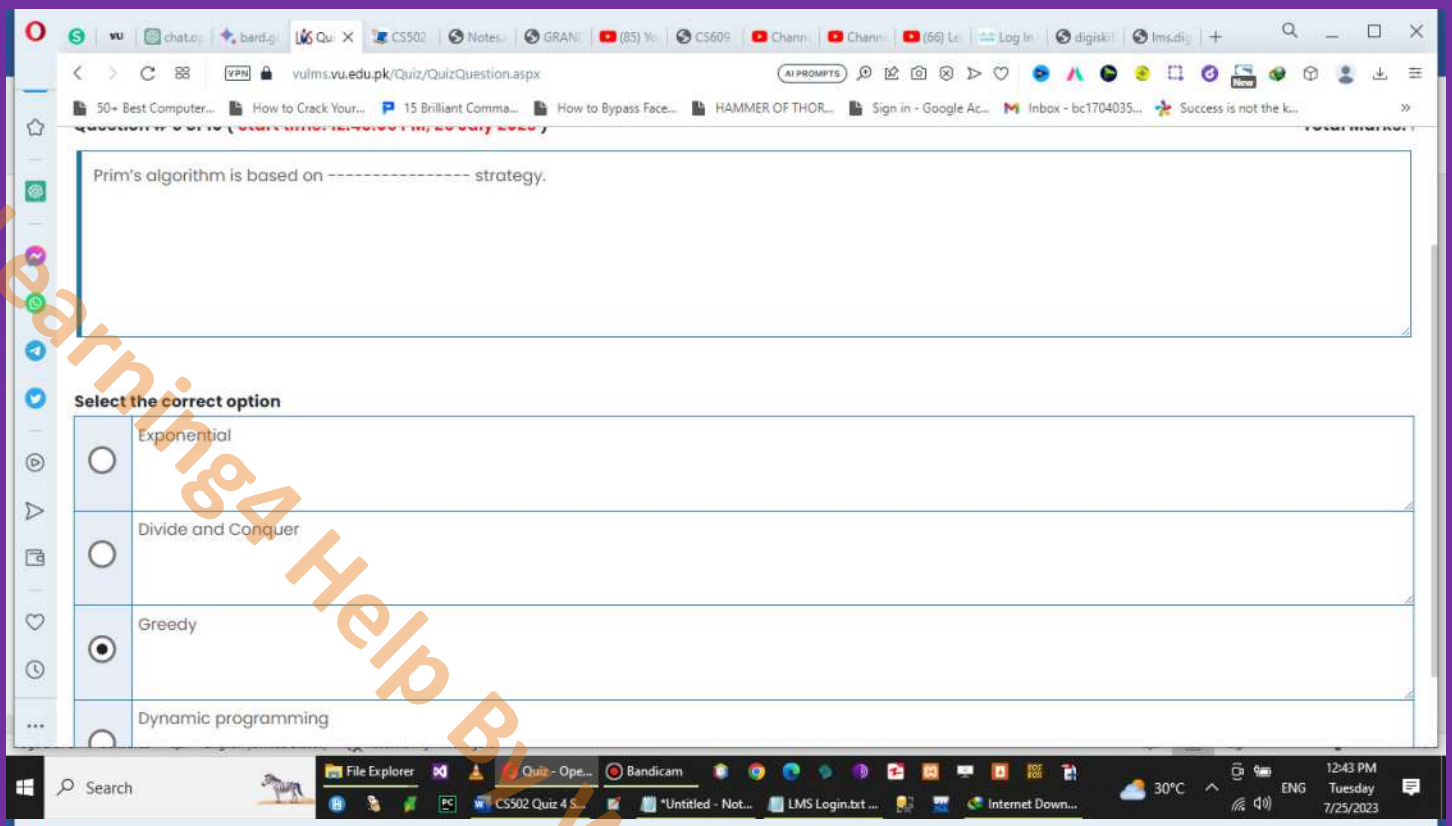
In the shortest-paths problem, we are given a weighted of_____G = (V, E).

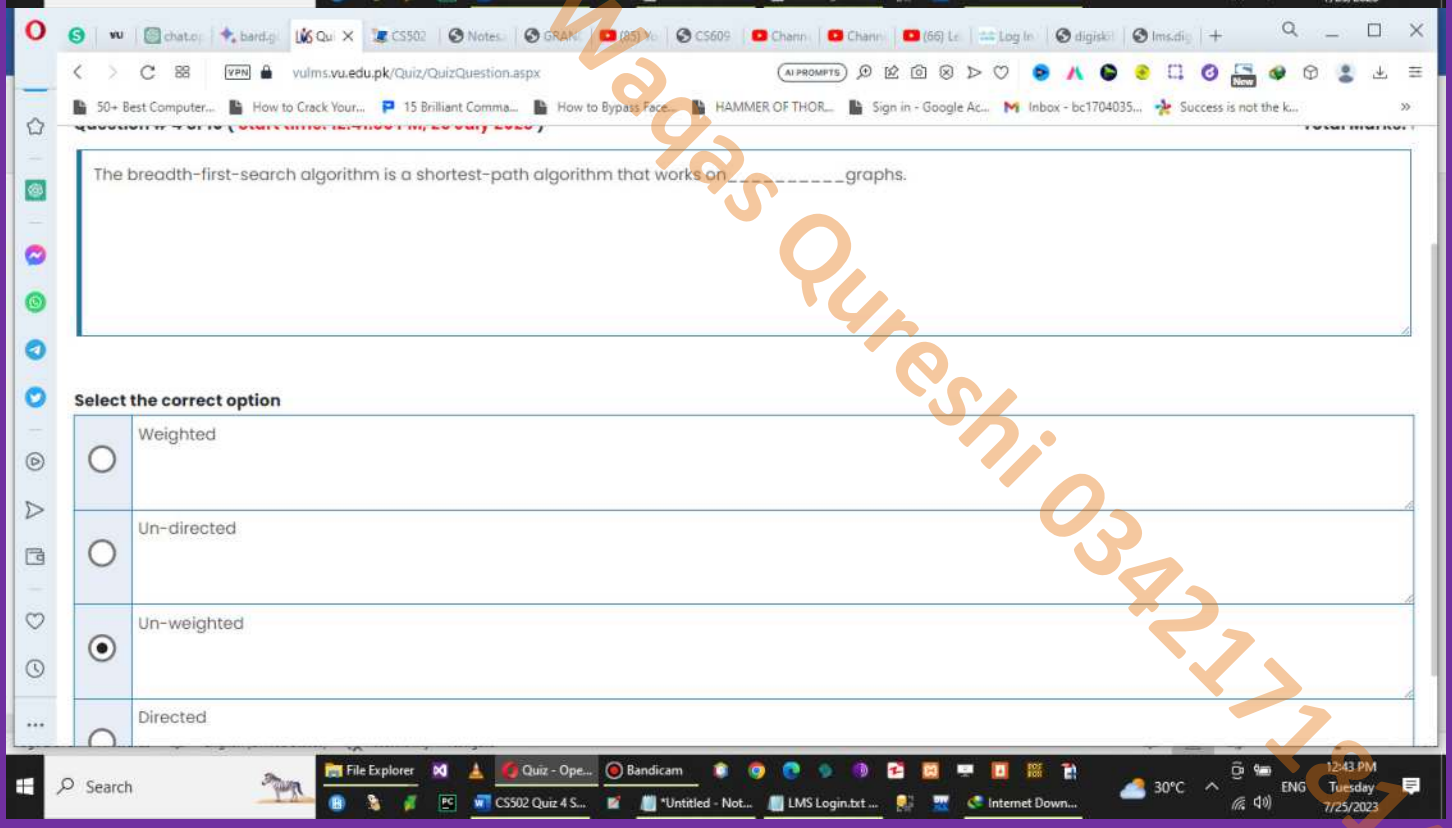
Select the correct option

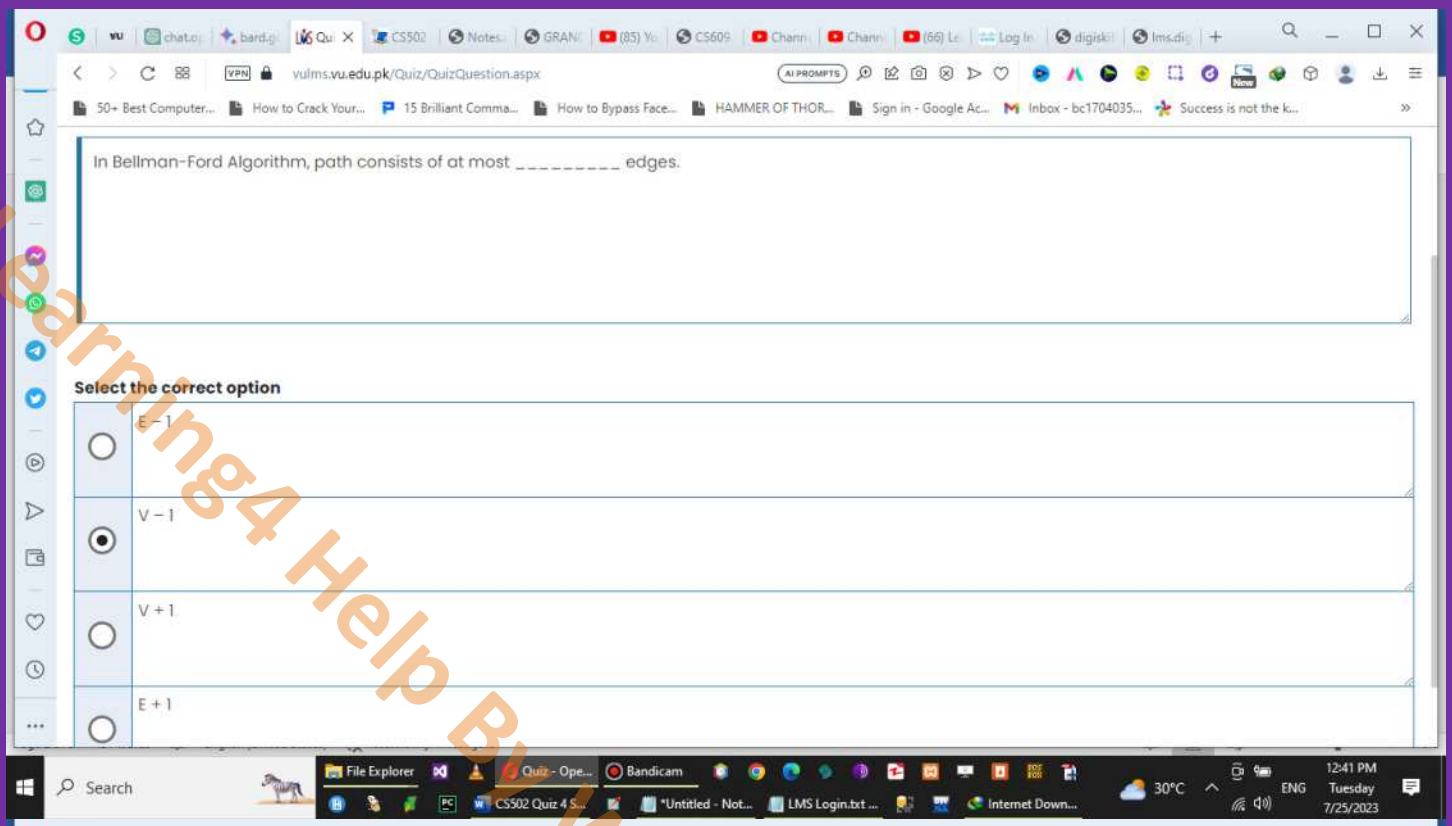
- Un-directed graph
- Directed graph
- Line graph
- Weighted graph

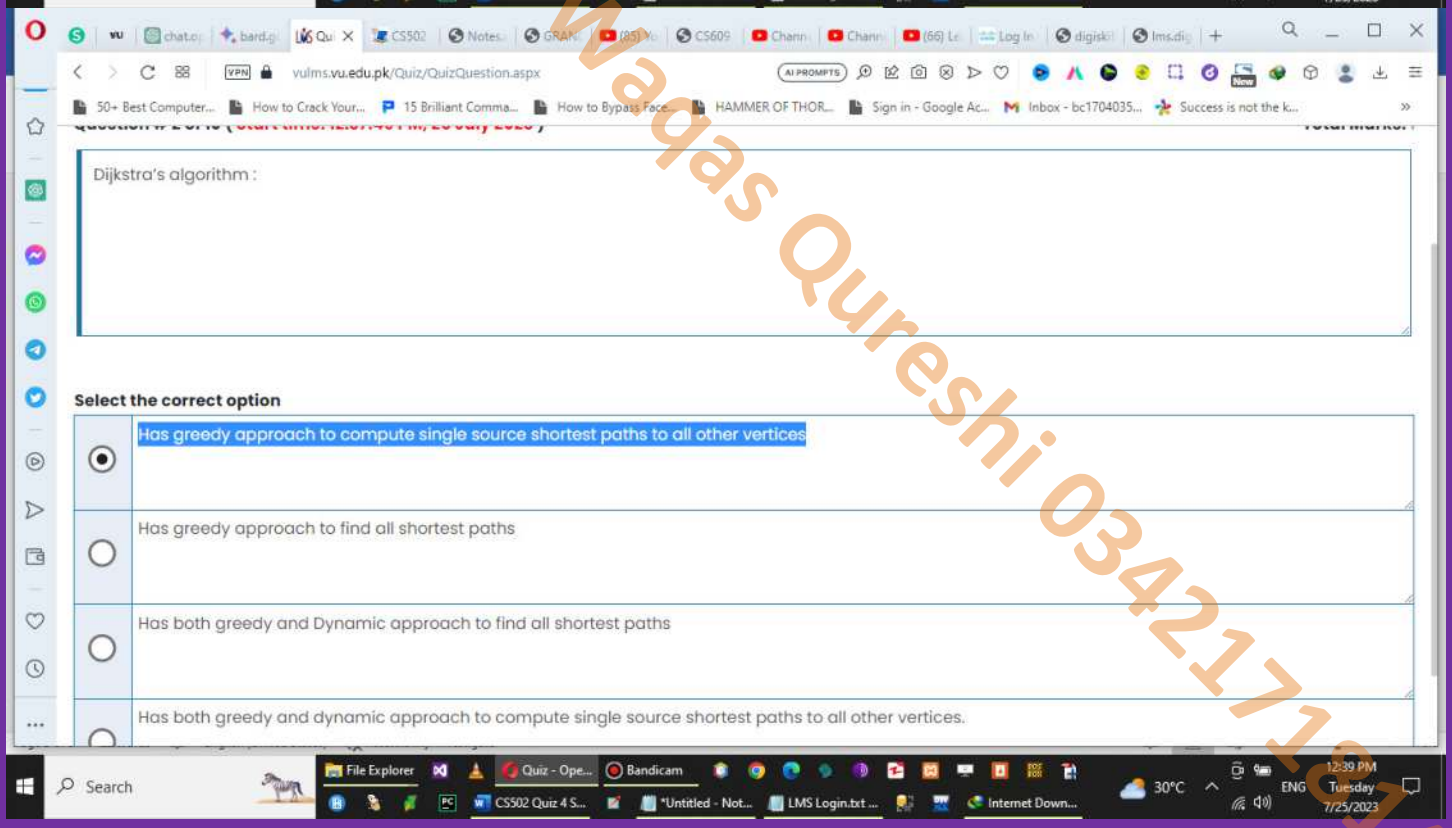


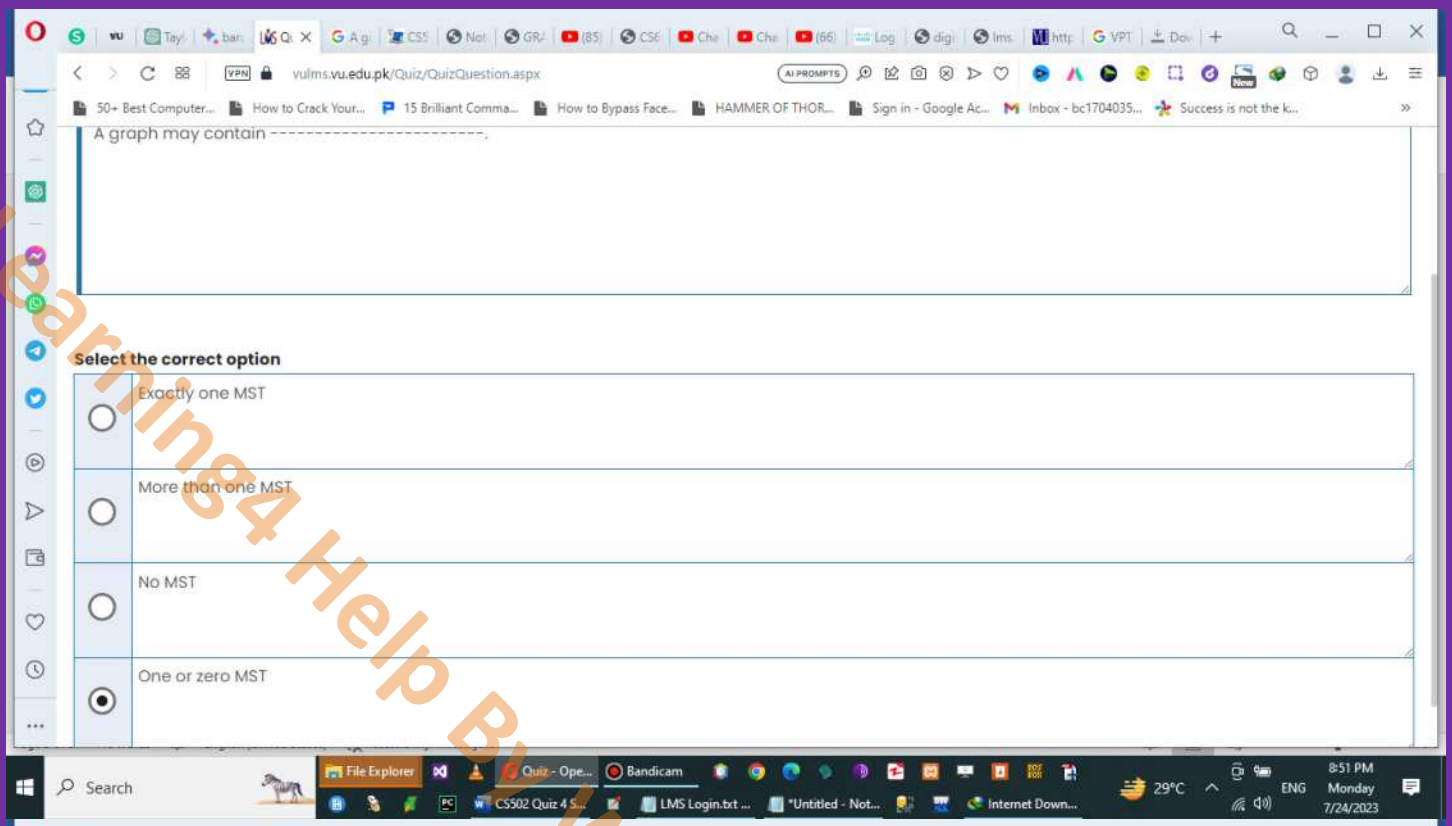


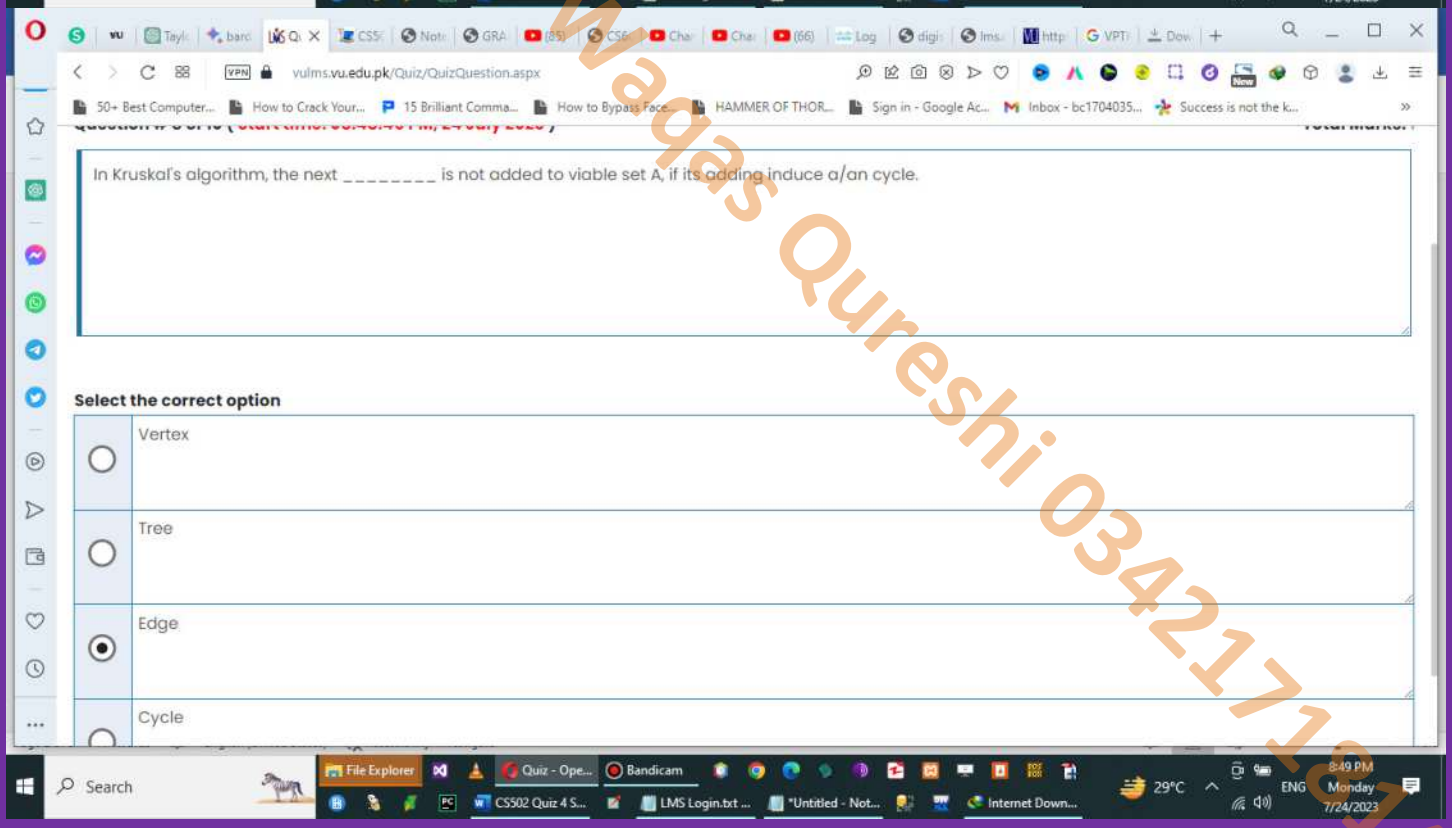


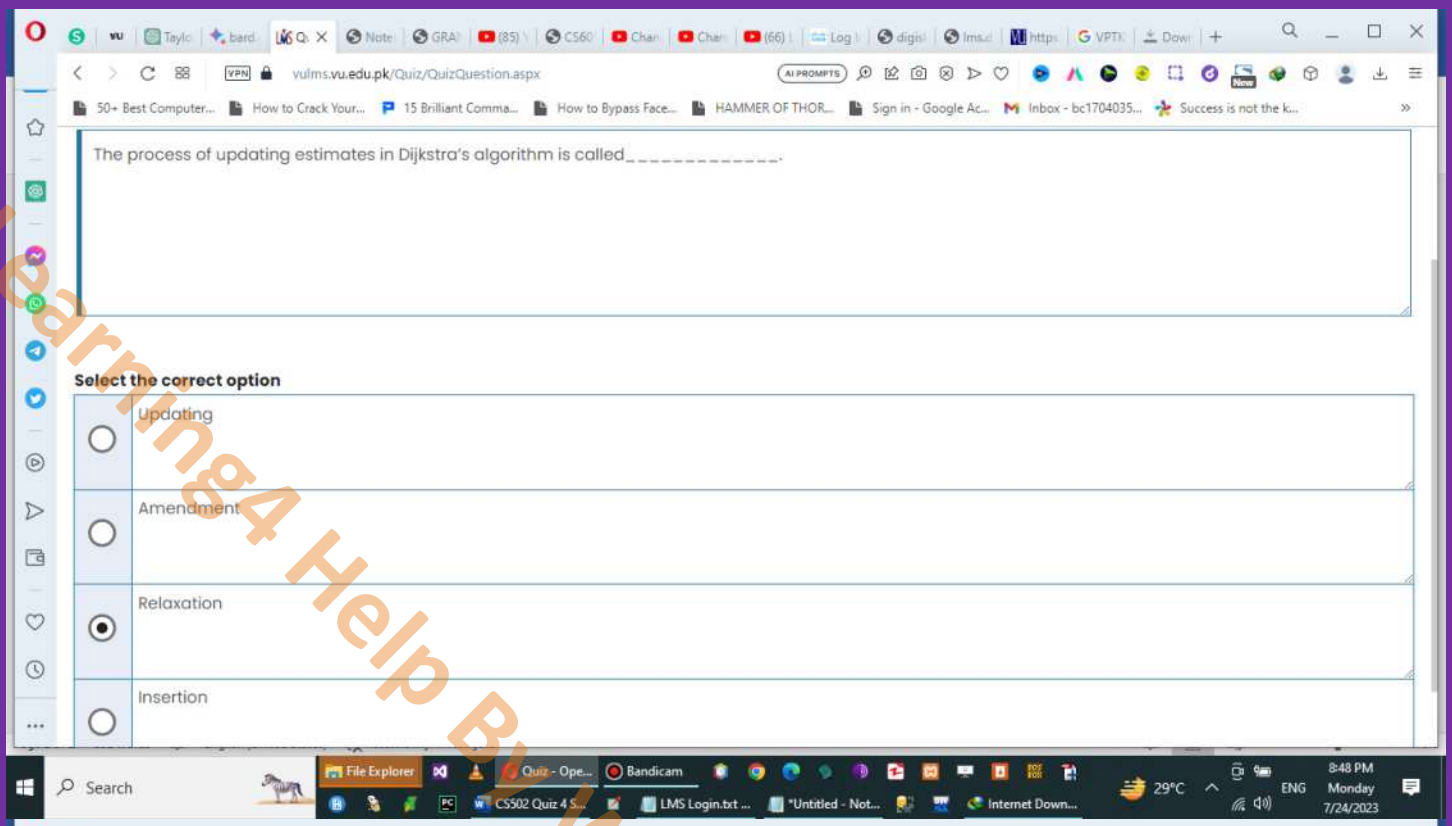


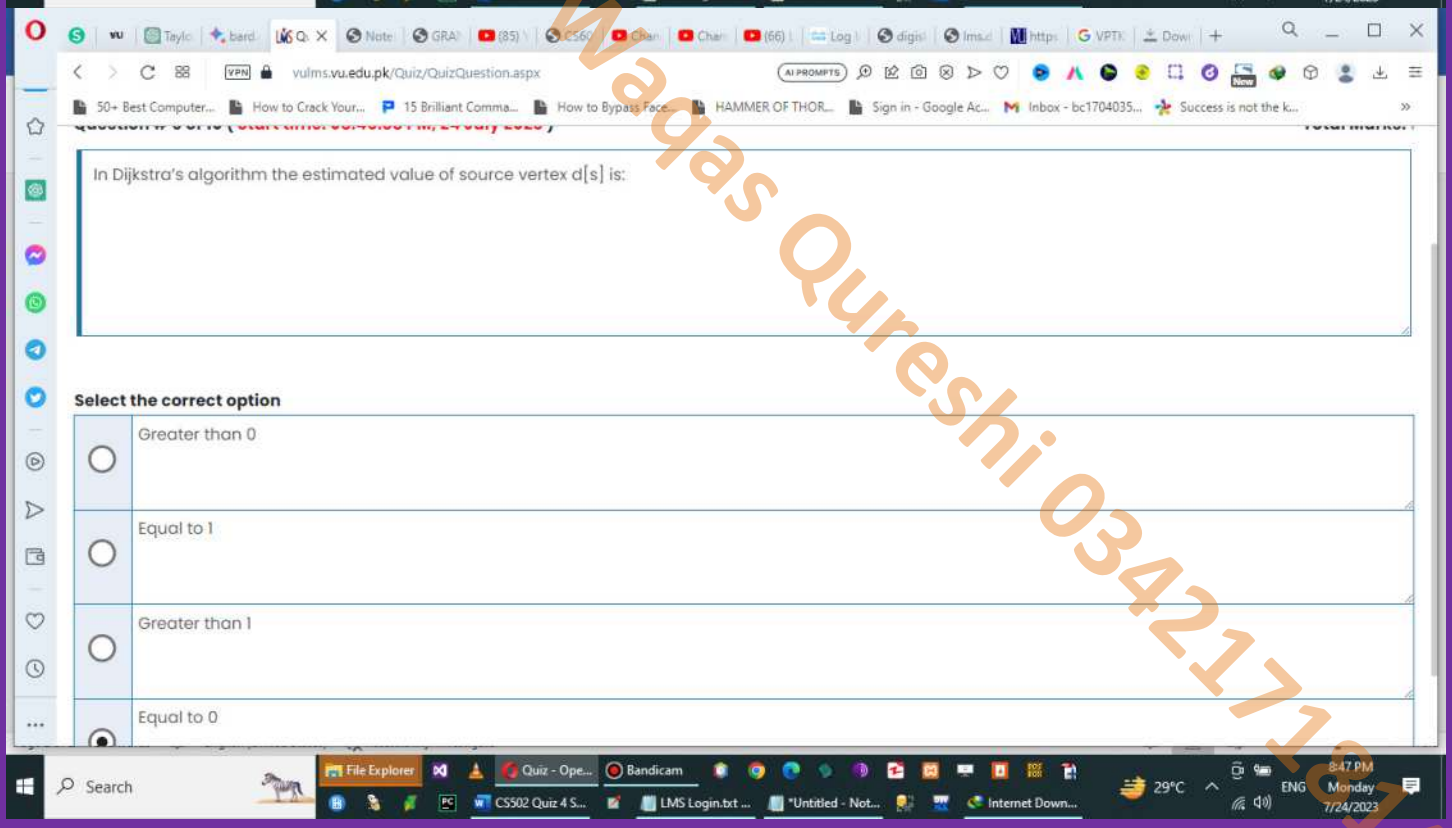


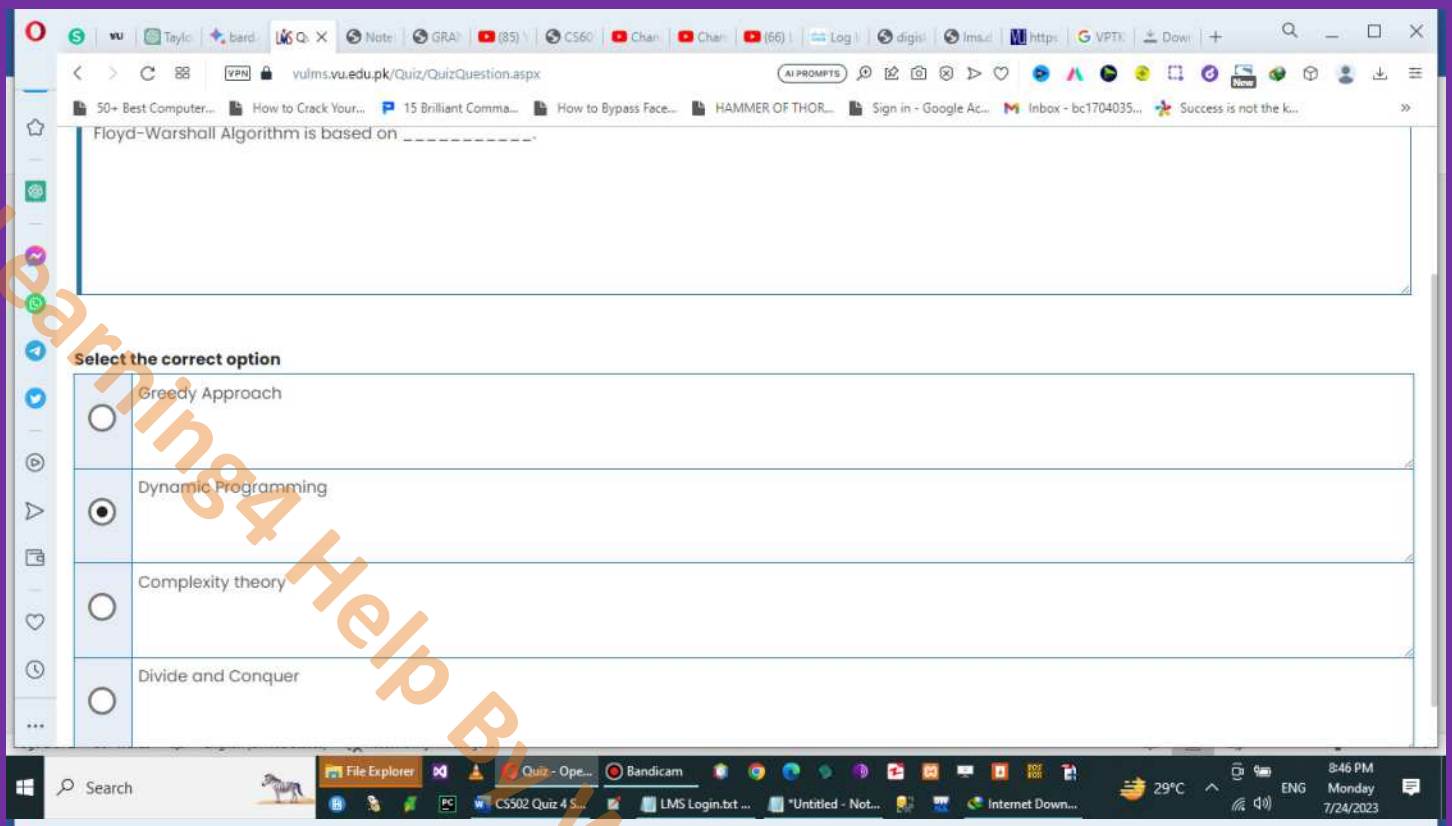


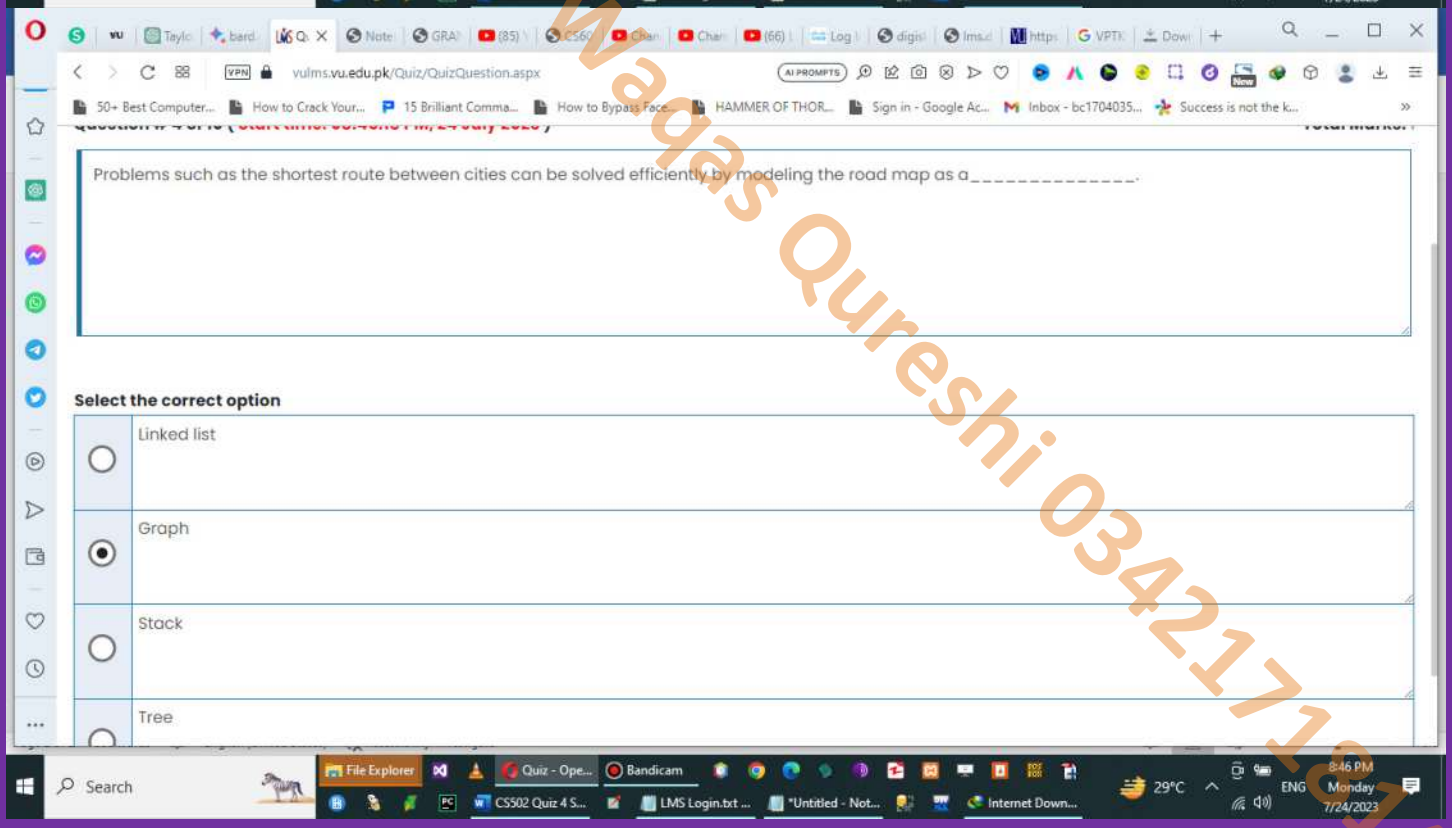


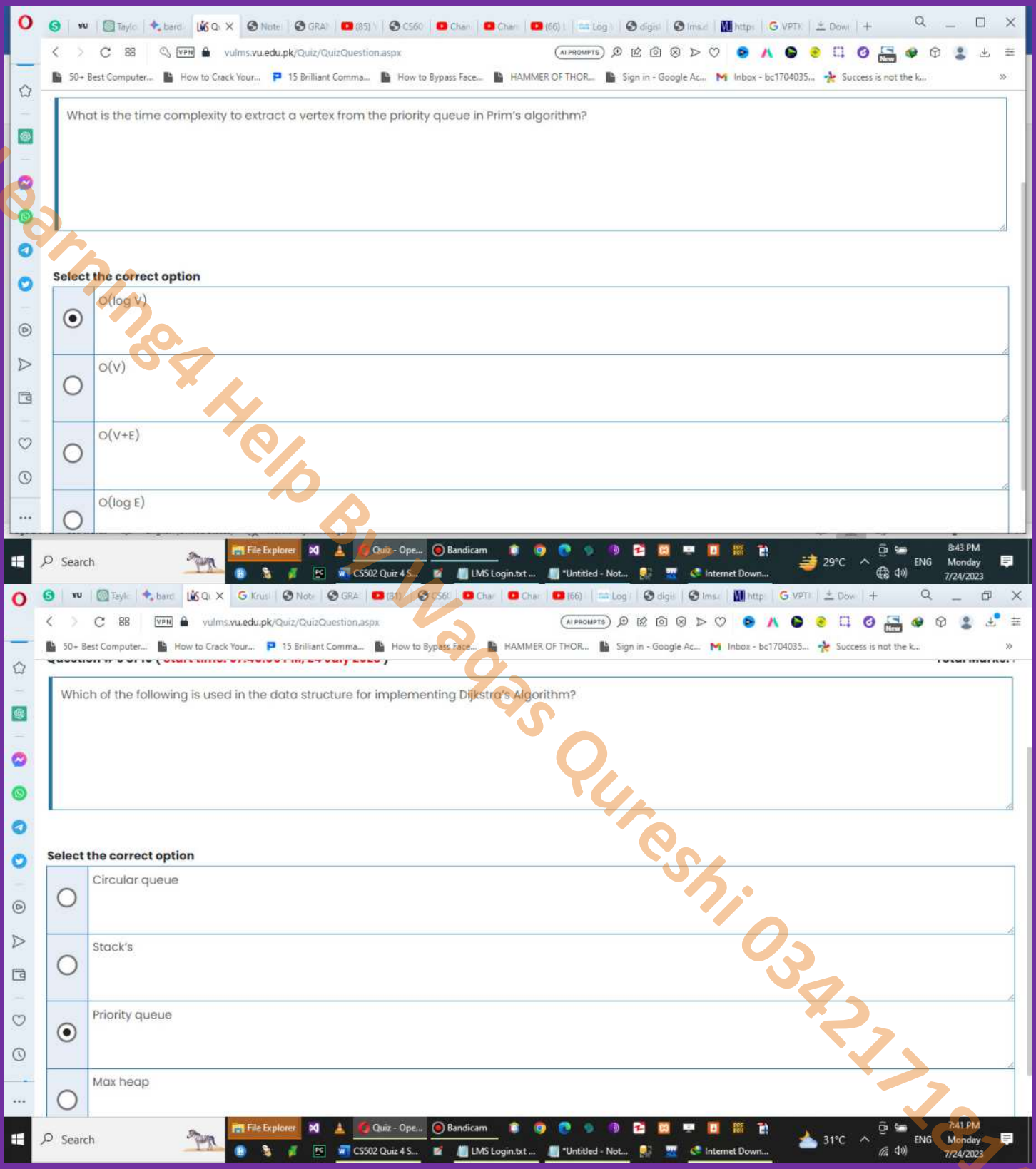


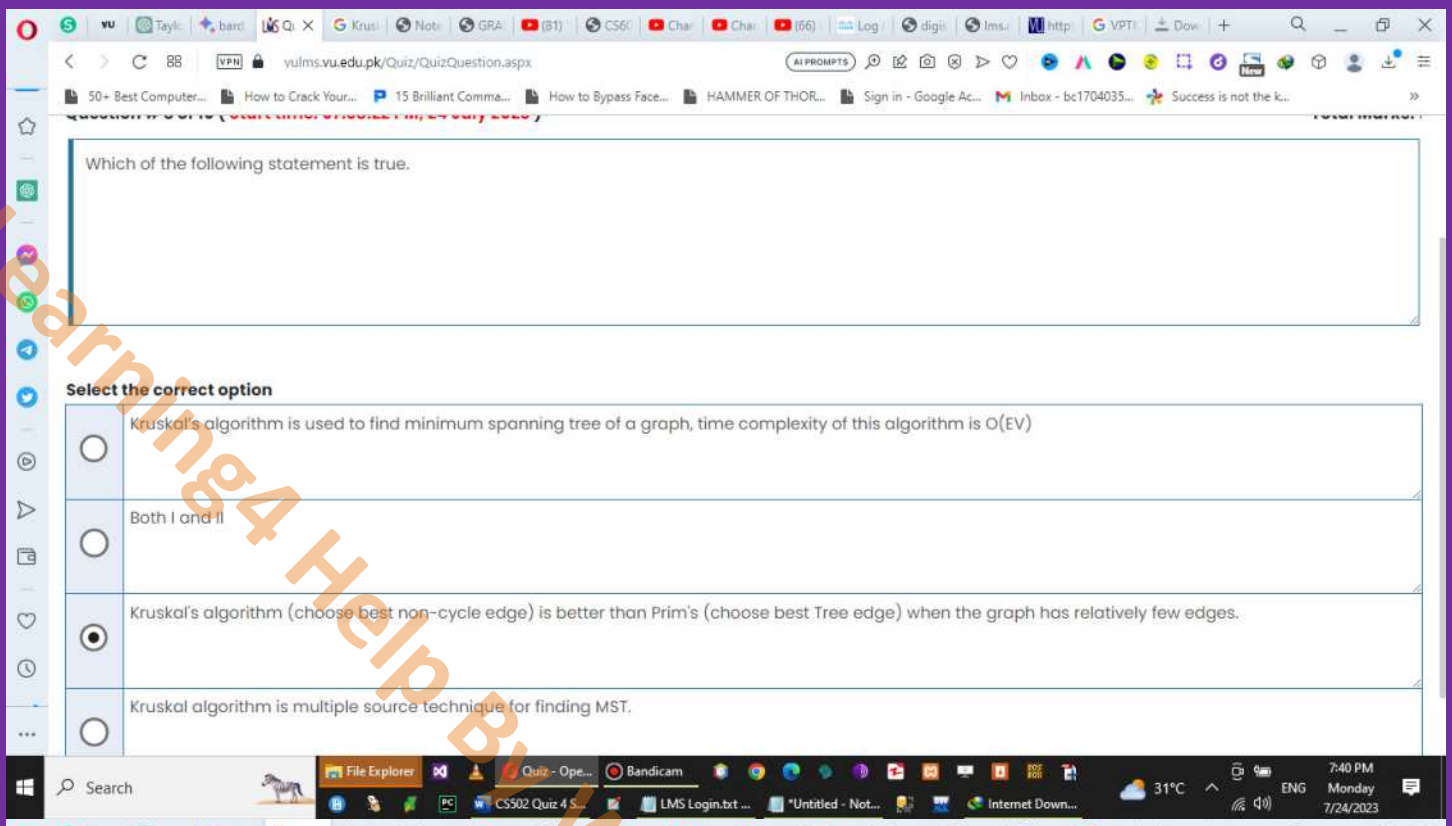


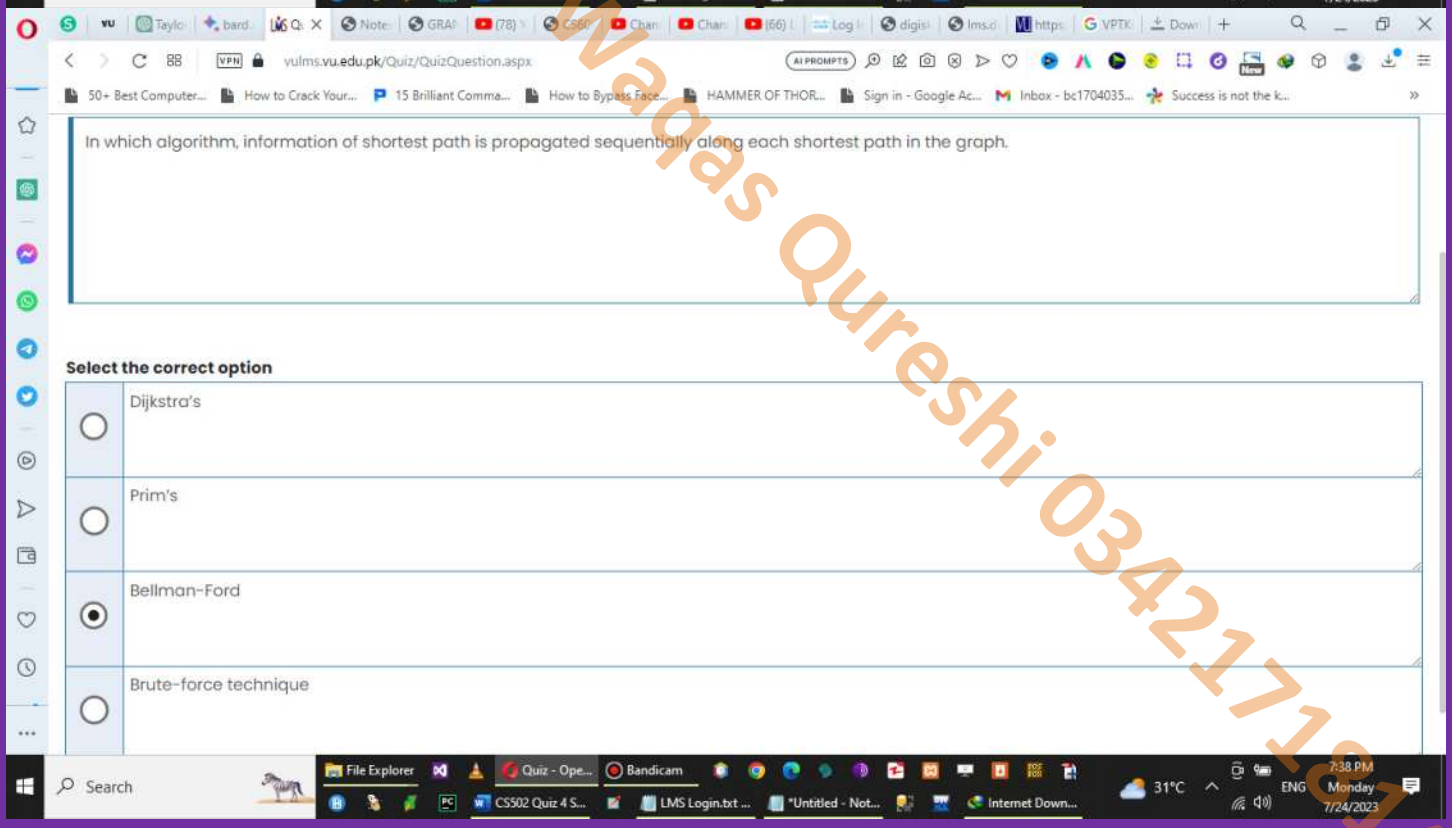


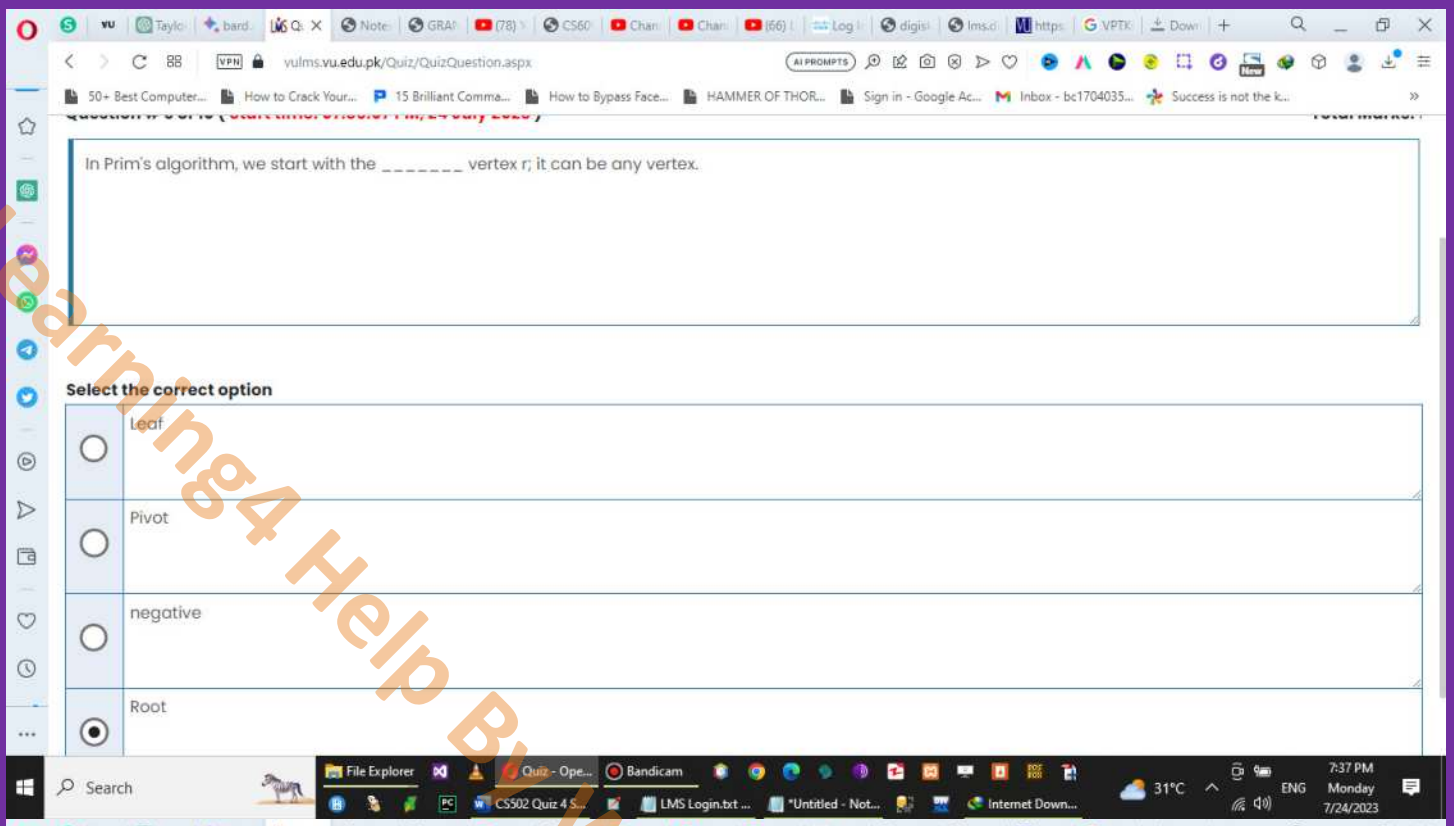


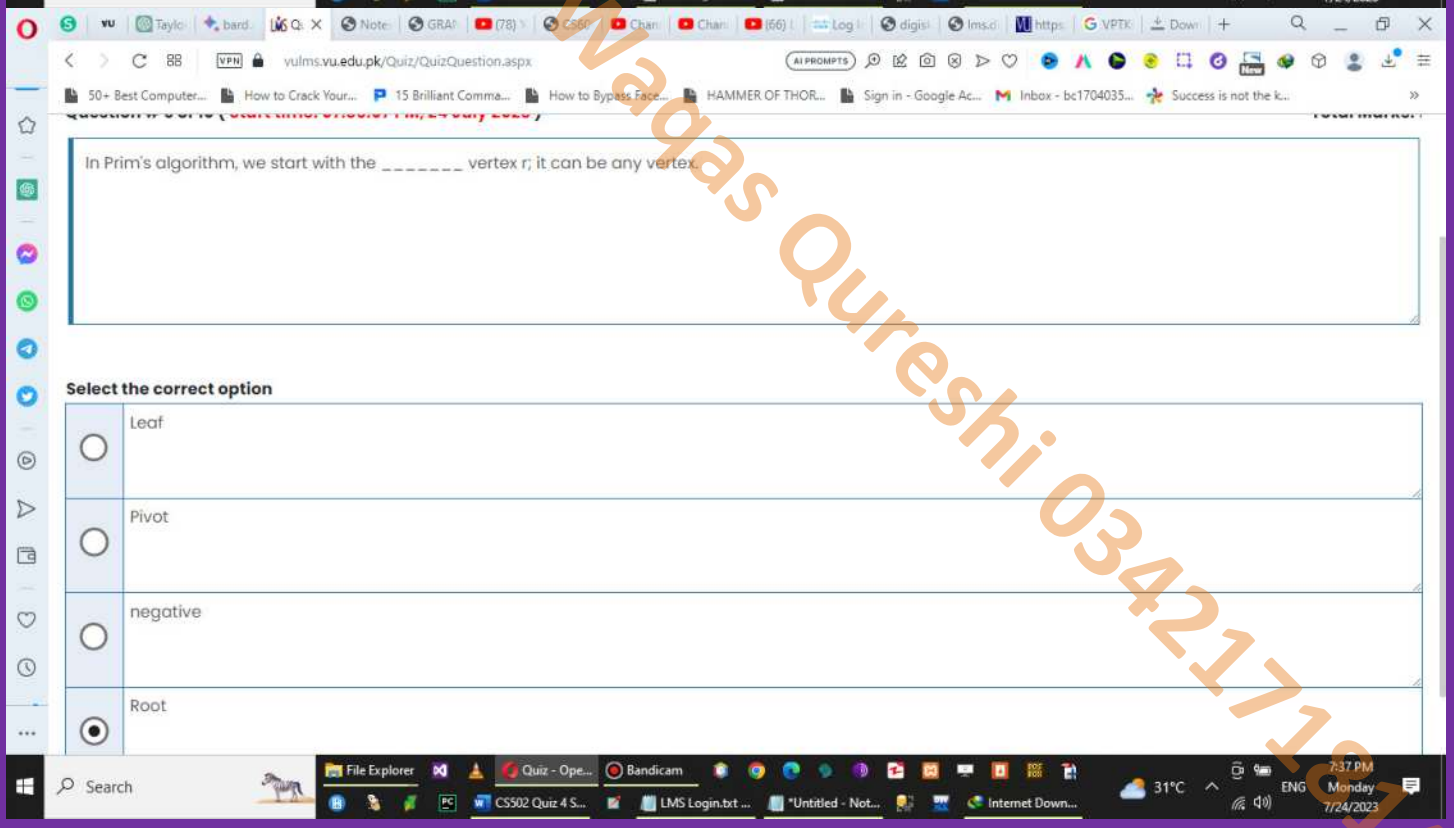


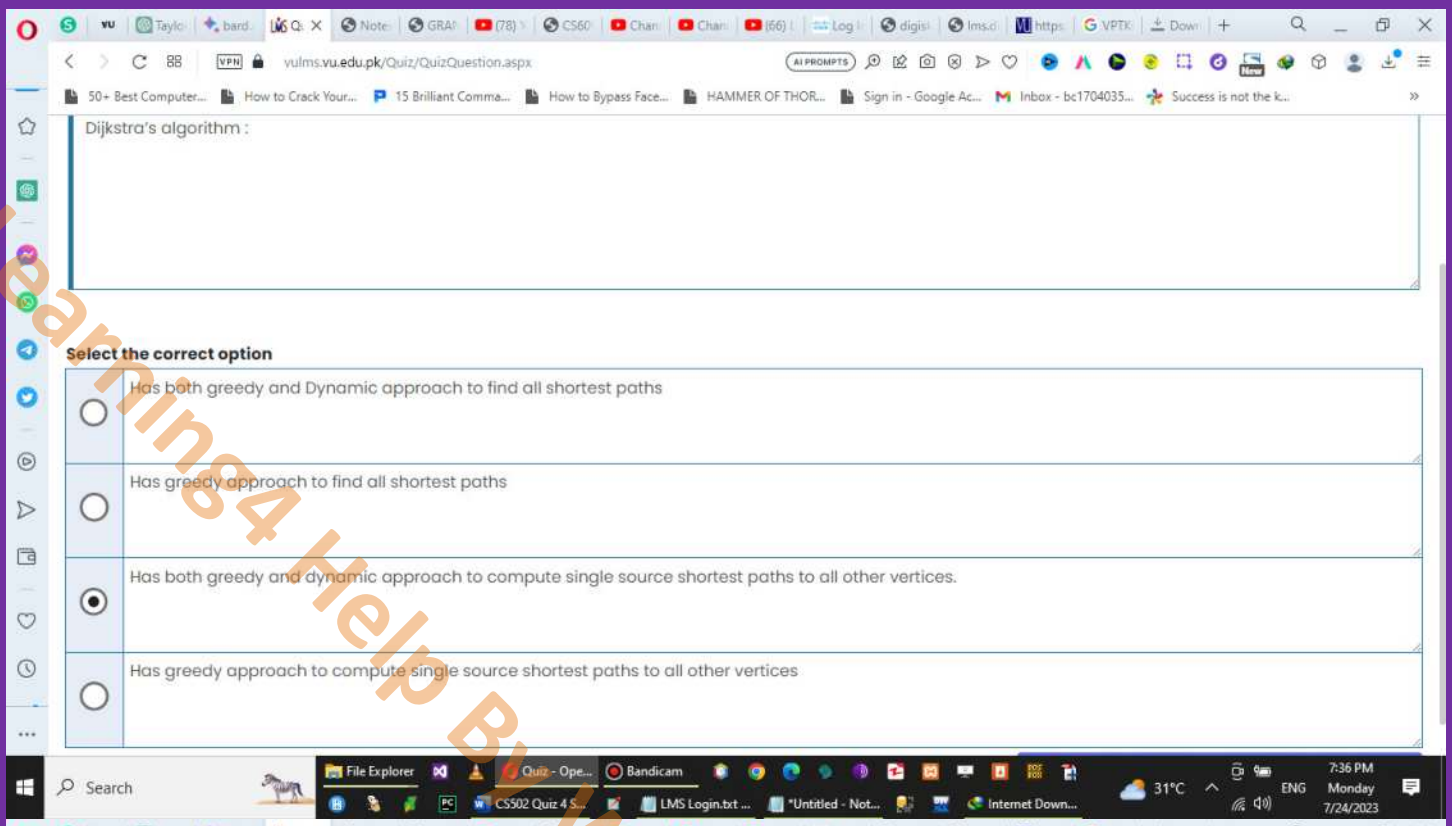


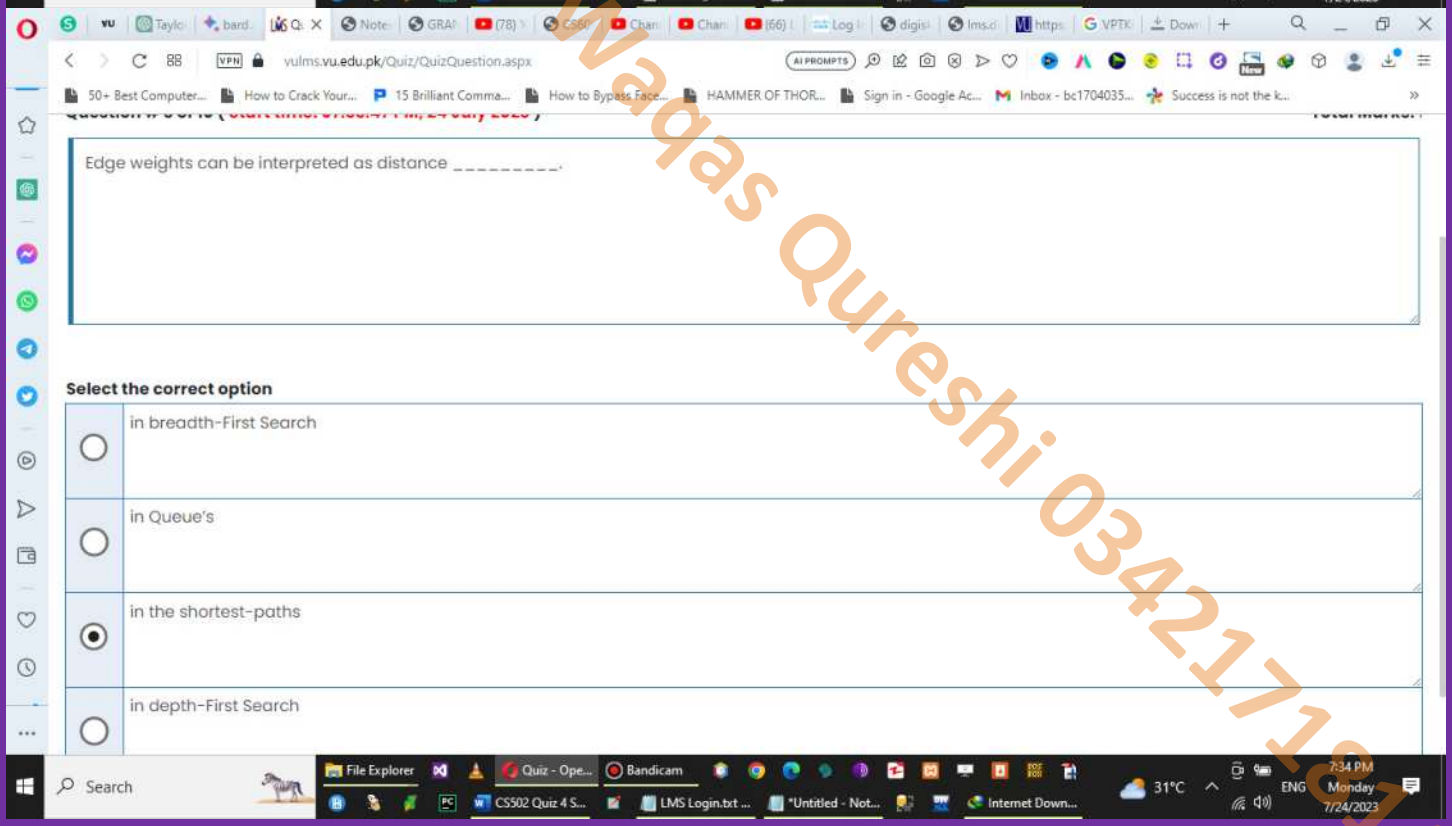


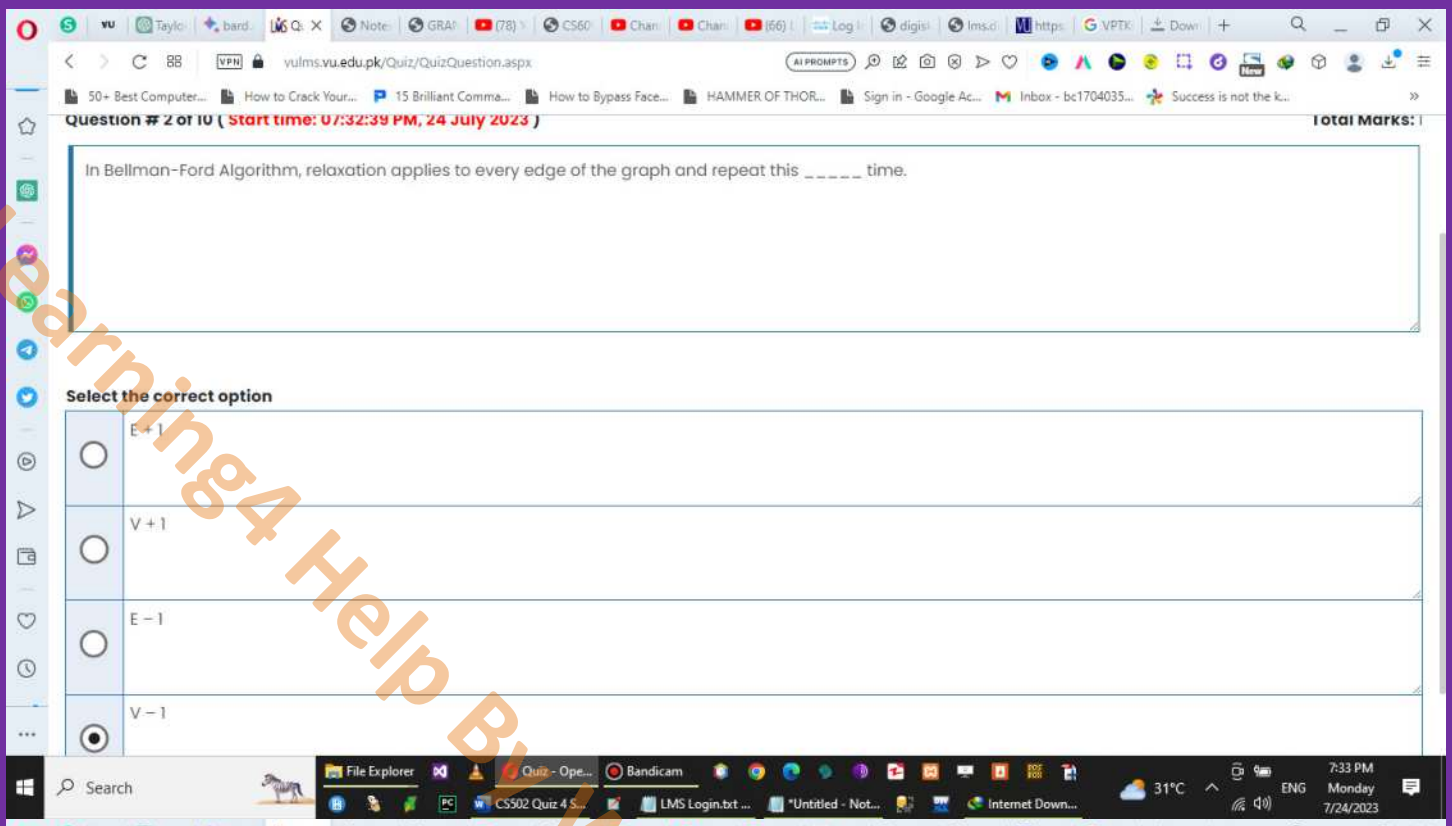


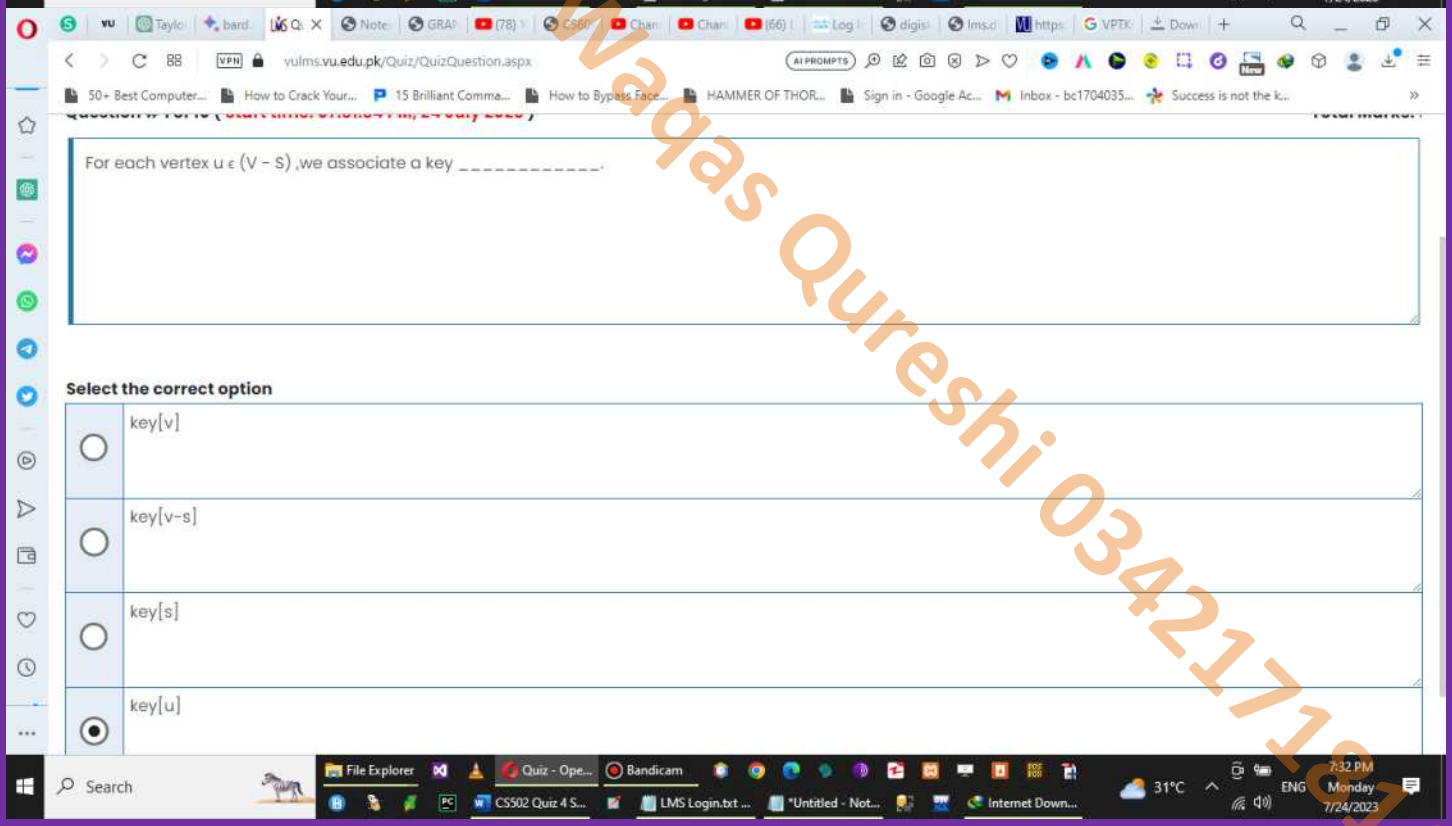


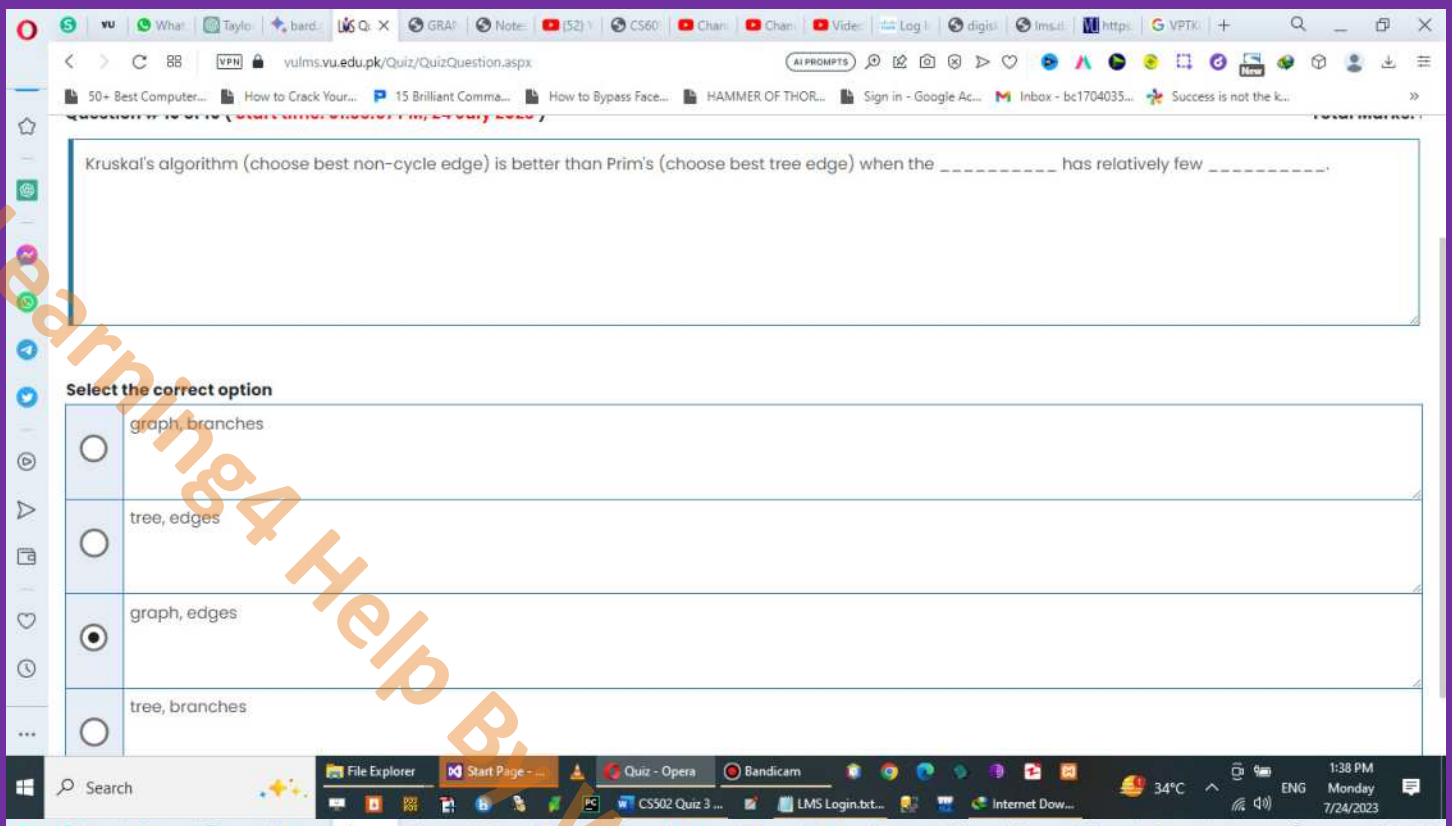


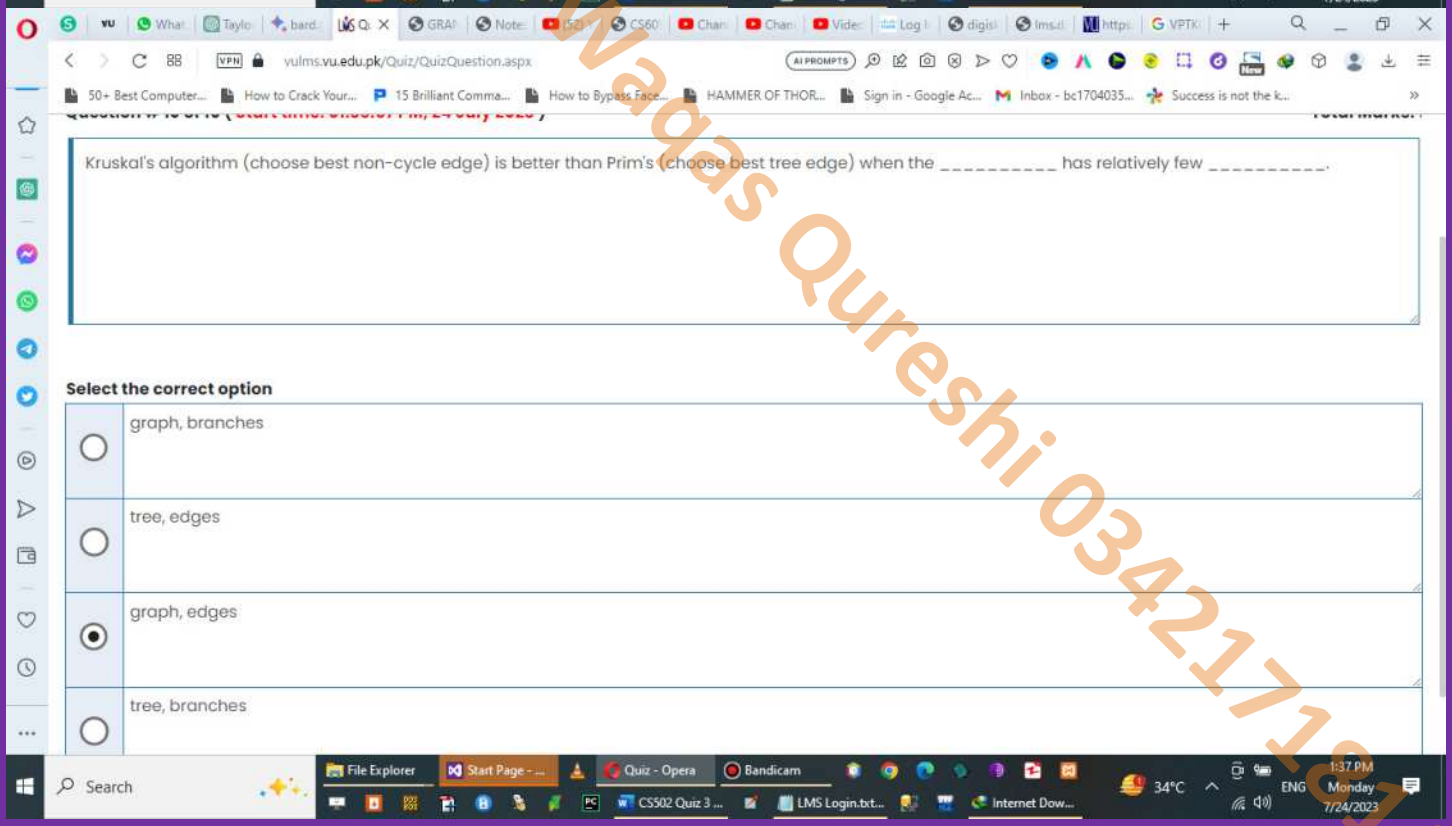


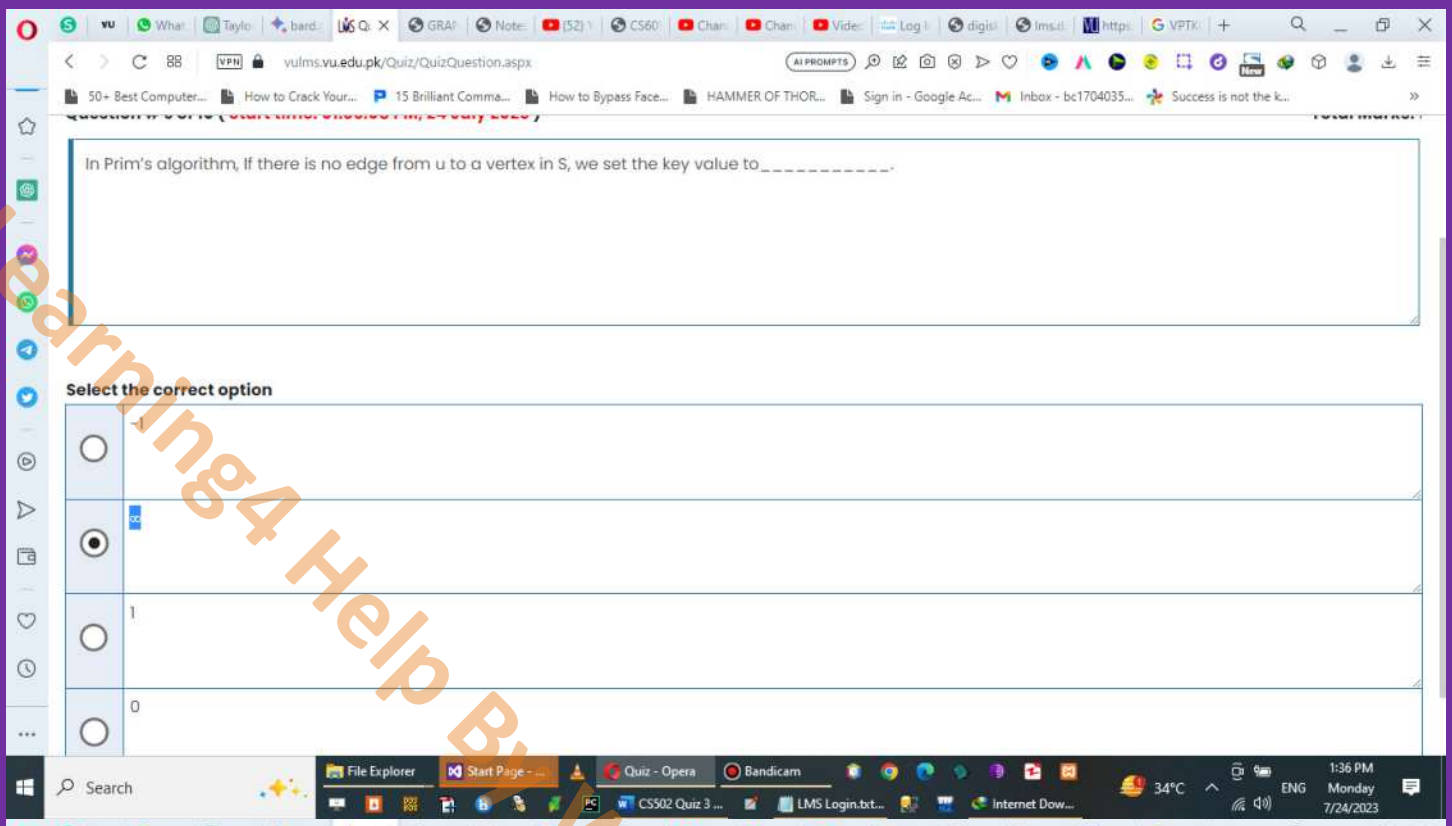








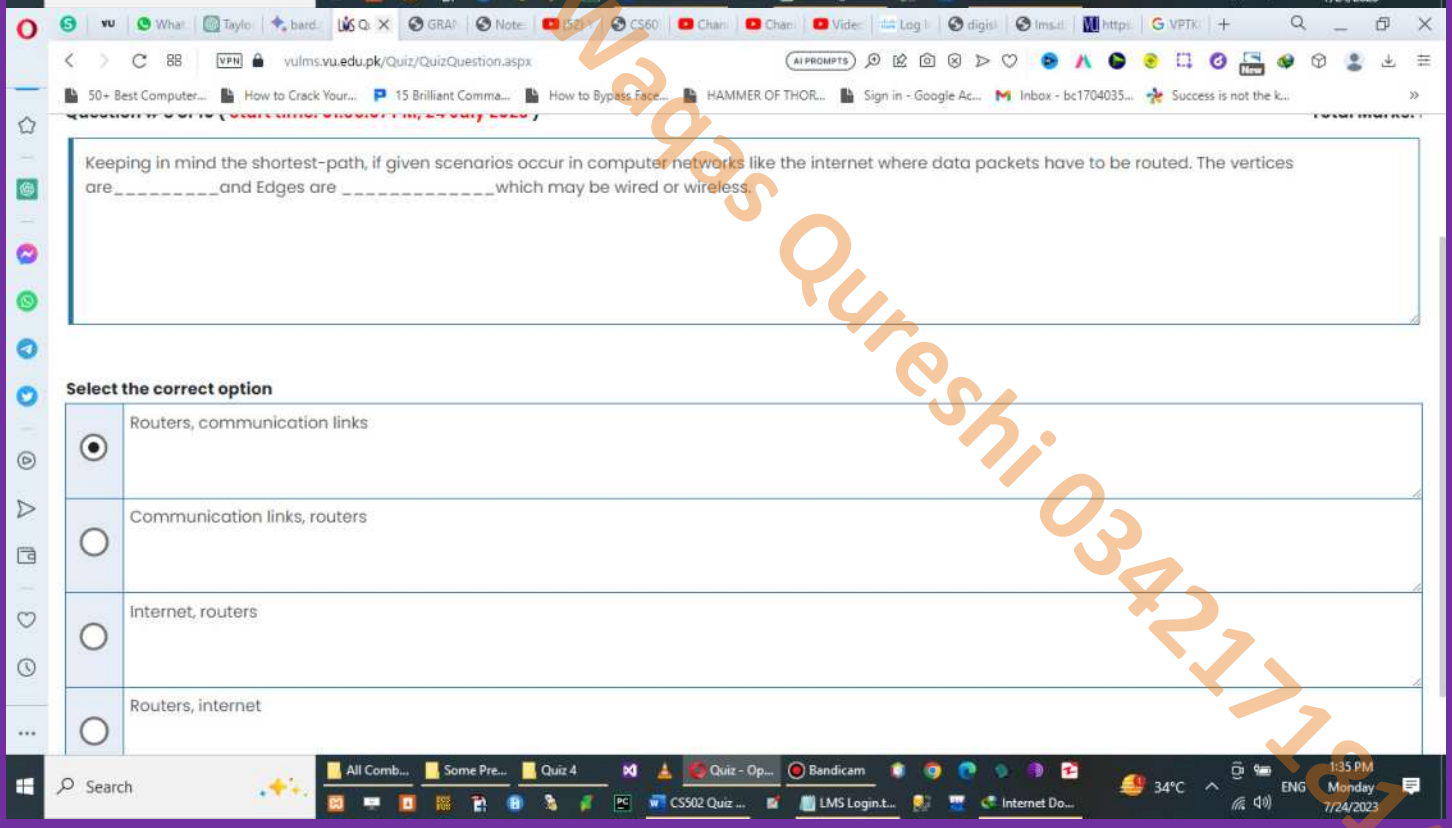




In Prim's algorithm, If there is no edge from u to a vertex in S, we set the key value to_____.

Select the correct option

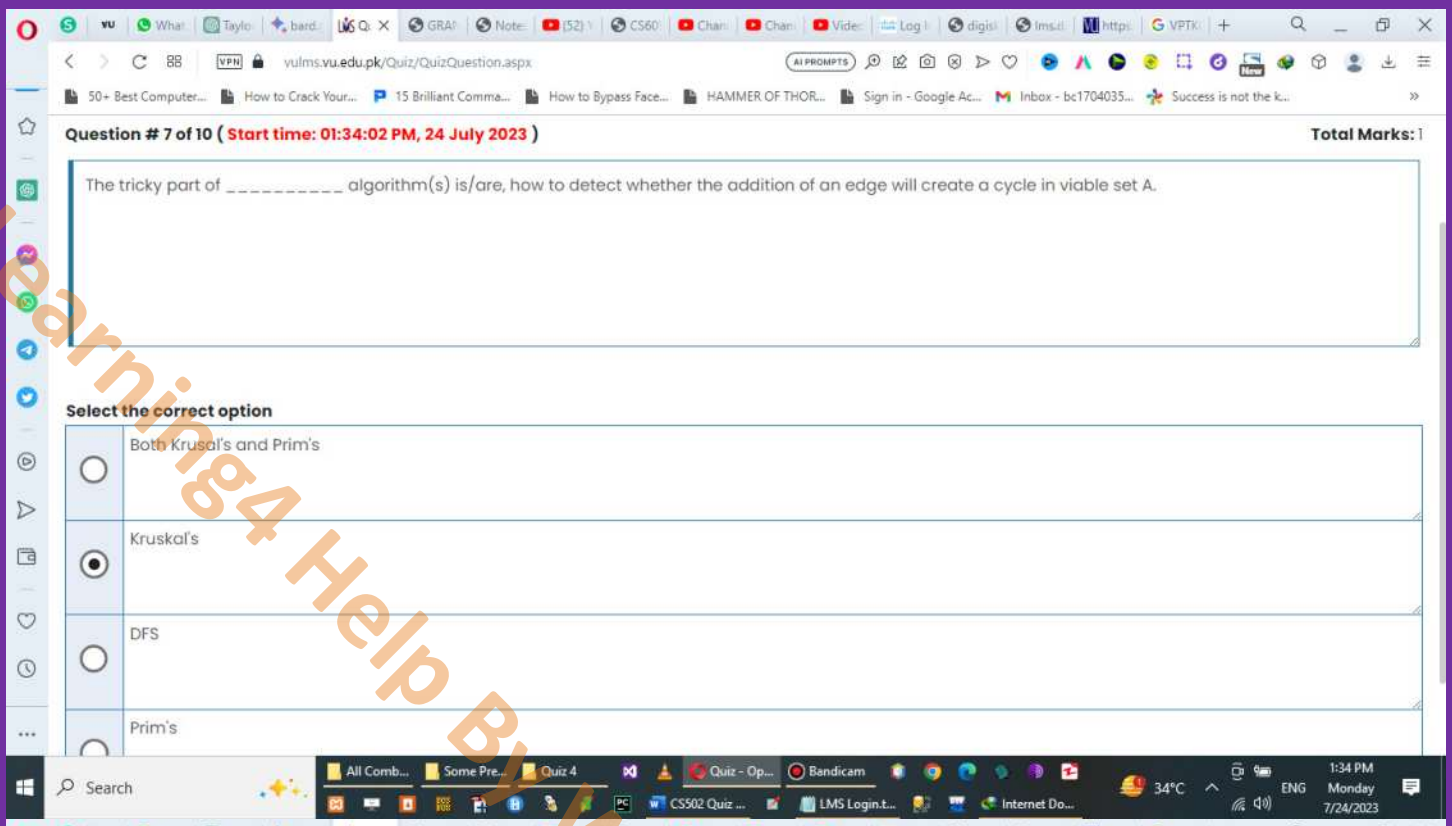
- -1
- ∞
- 1
- 0



Keeping in mind the shortest-path, if given scenarios occur in computer networks like the internet where data packets have to be routed. The vertices are_____and Edges are _____which may be wired or wireless.

Select the correct option

- Routers, communication links
- Communication links, routers
- Internet, routers
- Routers, internet

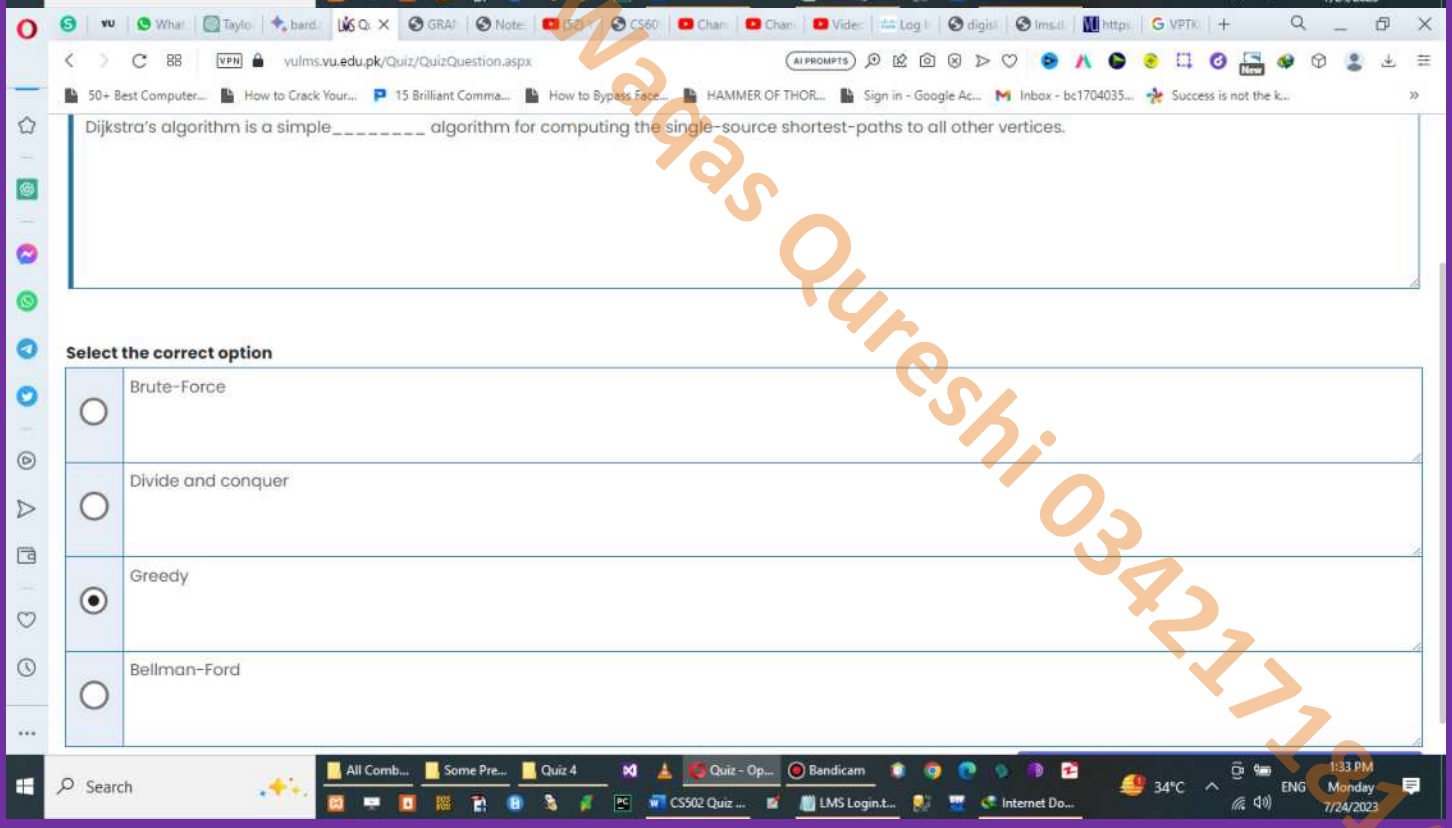


Question # 7 of 10 (Start time: 01:34:02 PM, 24 July 2023) **Total Marks:** 1

The tricky part of _____ algorithm(s) is/are, how to detect whether the addition of an edge will create a cycle in viable set A.

Select the correct option

- Both Krusal's and Prim's
- Kruskal's
- DFS
- Prim's



Question # 8 of 10 (Start time: 01:33:02 PM, 24 July 2023) **Total Marks:** 1

Dijkstra's algorithm is a simple_____ algorithm for computing the single-source shortest-paths to all other vertices.

Select the correct option

- Brute-Force
- Divide and conquer
- Greedy
- Bellman-Ford