## Assignment-04 Explaination

The code represented a graph by vertices and edges with weights in a matrix. The matrix is a 20 representation of the graph of Task-1b :011 q' emuton di seimento The code represented a graph by vertices and edges with weights in a adjacency list. The adjacency is a list of lists, where each sublist contains tuples representing edges and their weights. Task - Don't ETS for glad off Miw (smit The cook first represented the graph by adjacency list then performs BF9 Traversal starting from verdex 1. so Task-3: 11 die Lostrero ellos de eradinario the code first represented the graph by adjacency list then performs DFS travered starting from verdex 1.

Scanned with CamScanner

Assignment telepa

Task-4

The code detects lift there exists any cycle or not. with the help of DF3 Travertsal.

If there exists any cycle it returns "True"/es!.

Otherwise it returns "P'NO".

Task-5
The code finds the shortest path from vertex 1 to the target vertex, and writes the shortest path and its length (referred to as 'Time') with the help of BFS traversal.

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The code performs DFS traversal from each cell marked with 1. and counts the maximum number of cells marked with 'D' that can be reached. The grid is represented by a matrix, where 'H' represents blocked cells, 1. represents open cells, and 'D' represents cells with diamonds.