Task-03
Problem 1
For making the graph, the loop runs for each road m;

mtc

For dijkotra:

The conditions -> O(1)

The for loop that runs for each neighbouring xeretex

L> (n-1)

Main while loop that runs until 2 is empty is tog(n)

:, O(m+ (n-1)/g n) [ignoring constants)

Problem-2

Formation of graph remains same. more

In dijkstra, for output I have run 2 loops 4 > 2n + c $0 (m + (n-1) \log n + n)$

If each road has a weight of I, this will be similar to having to weight at all. Hence, we can use a modified BFS with O(V+E) time complexity.