Task-04

for OFS:

we appended is node into the queue the time complexity is O(V). Here E is the number of vertices. For the inner loop the complexity is O(E), Here E is the number of Edges.

total time complexity = O(v)+O(E) = O(v+E).

Now, for adjacency matrix = O(v).

For DFS = + for In DFS, we need to traverse the neighbours also and the time complexity forthat is O(V). Again, ned are traversing the edges of every vertices, and the time complexity for that, is O(E) theologe, total time complexity = 0 (V)+(adjacency matrix = 0 (vy)

Now, Here we can see, DFS 1 more efficient and taking less time compare to OPS. That's because of DPS is taking less vortices and fravened Since, bory using the DFS algoriths
we will traverse less vertices than myself and thospere will go victory road fasters.