Friday 12 Lingle Source Shortest Path Dijkstra's Algo - assume that all edge weights in the the hoad map example. Bellman-Ford Ago-allow -ve weight edges in the input graph and produce a correct answer as long as no -ve weight yeles are blackable from the source. Dijkstrois Algo - It is a greedy algo that solves

the SSSP problem for directed

graph G= (V,E) with non re edge weights re

w(U,V) >10 for each edge (U,V) EE Eg - Electric Wise fitted to coverup the room with min amount of wire s=solution Dykstra Algo (G1, W, S) 10 1) Initialize single source (61, s) 2) S = 0 S=0 3) S = All the vertices v of G J- Queue -Llig V (heap) 4) while & #0. U= Extract-min(Q) S = Su{u} or S+{u}

for each vertex v & G Adj[u] Each Vertex to Ex boar chall raha. To Relax (UN, W) Ly E Jithi Edges hai So Elvg V





