IN LAB - 8 Abhican G 18m18CS127 Dirkstras class Graph (): def __ imit _ - (xelf, vertices): Self. V = Vertices Self. graph = ((0 for column in range (vertices)) for low in range (vertices) pant - solution (self, dist): print (" Verlex V+ Distance from source") for node in range (self, v): print (node, "It", dist (node) def min-distance (self, dist, spt set): min - 9999 For V in range (celf. V): if dist(v) < min and sptSet(y) : False: min = dist (1) min_inder = V return min-index det addiedge (self, sic, dest, weigh): self. graph [src] (dest): self graph (det) [src] weight dikstra (self, sic) def dist = [9999] & Self. V dist [src] - 0 spt Set= (false) + self. V for cost in range (self. v): U - self. min. distance (dist, sptset) sptsel (V): True for I in range (xelf. V). if self. graph (U) (N) > 0

MIWIFSS

spt Set (v): False and dist (V) > dist (o) + self. graph (v)(v). dist (1) dist (1) + Self. graph (1) (1) self. print, solution (dist) g: Graph (int (inp Ut ("Enter no. of nodor))) c : int (input ("Enter no of edges"); for in range (c): sic dest, cost = (int() for - in Imput ("Enki (sic) (Pist) (wegs L+C).) split (' 1) g. add-edge (ric, dist, cost) Sic = int (input ("Enter (sic) to fil cost"). a. djihsha (sic)