DIJKSTRA ALGORITHM PRANAV JAGADEESH IBMI8CS071 BATCH 2 # include Sits / stdett. h> ming namespace etd; # define V 9 int min Distance [int dist[], bool efit Set [7) int min = 9999, min _index; for (int V = 0; V < V; V + +)

if (int V = 0; V < V; V + +)

if (int V = 0; V < V; V + +) min = diet [v], min_index = v; eroid frientPath (int farent (), int j) if (parent) == -1) phint Porth (parent, parent (j.)); used paint Solution (int dist [), int n, int parent [] cont << "Verten \t Distance \t Path < Cencle" for (int; = 1) ic v jitt print Path (parent, i); moid dijketra (int graph [V].[V], int wee) int dist[V] bool after [V] int parent[V] for (int i = 0; i< V; i++)

} parent [0] = -1; dist [i] = 9999; gtset [i] = false; dest [see] = 0 ; for (int court = 0; count < V-1; count ++) int u= mh Distance (dist, ifit Set); Apt Set [u] = true; for (int V=0; VCV; V++ 2 if (! Apt Set [v] && graph [u](v) < dixt [v])

{ patent [v] = u; diet(v) = diet [u] + graph [u] (v) print Solution (dest, V, palient); int main () { int graph (v][v]) cout & "Enter the graph (Enter 99 for infinity): 4 << endly for (int i = 0; i < V; i + +)

{ for (int j = 0; j < V; j + +)

ein >> graph[[][j]) cout << "Enter the cource: " < (end) un) src; dijhetra (graph, ruc) j cout < < endl ; return 0;