Write a program for distace vector algorithm to find suitable path for transmissions C. Kallom Naider 1BM18C5042 (mhost java. io. * ; Lublic · class Distance Vector Static int graph [][]; static int via [][]; static int ext[][]; static int v. static int e: fublic static void main (String angs []) throws IO Exception Buffored Reader br = new Buffored Reader (new Input Stream Reader System. out. point In (Please enter the number of verticies: 1).

V = Integer parse Int (br. suead line (); System. out. println ("Please enter the number of Edges"); e=Integer. passeInt (by. neadline")); System. out fount lnt Please enter the numb graph = new int [v][v]; via = new int [v][v]; at = new int [v][v]; for (inti=0/i/v/i++) for (int j=0; j(v) j++) { if (i==j) graph [c][j]=0; else · graph [i][j] = 9999;

for(inti=0; le; itt) System-out, point in (") Please enter data for Edge "+(i+1)+":"). System, out, fount (Sounce: 1), ints: Integer parce Int (by mead Line()); System out point (" Destination: ");
intd = Integor parce Int (br. neadline ()); System out, pant (" (ost: "); graph [s Jd] = c; graph [d][s] = C; dun = calc _ disp ("The initial Routing Tables are; "),

soplin ("Please enter the Source Node for the edge whose

cost has changed"); ints: Integer passe Int (br. sead Line()). Sopla("Please enter the Destination wode for the edge.
Whose cost has changed;"), int d = Integer. farse Int (7/bg, Mead Line ()) = Softn ("Ente the new cost"); intc = Integer. pareInt(ba. nead Line());
graph [5] [d] = c; die - colc-dish ("The new Routing Tables one: "); graph Ed][s]=e;

C. Kayan Nalay Static void dv9-cale-dish (string IBM 18CS042. System. out. println (); init-tables(); update -tables (); System out point In (message); foint-tables (); S-op(n(); static void vhake-table (int source) 2 for(inti=0;i if (geraph [source][i] !=9999) {int dist = graph [source]; for (intj=0; j<v; j++) { int inter - dist = get [i][j]; if [via [i] [j] = = source) inter-dist = 9999; if (dist + inter-dist < 91 t (sou ace][j]) ? get [source] [j]=dist+intendisto via Source][;]=i/

C. Kovan Paidu 1BM18C5842 Static voidinit-tables () Éfon (inti=oji < v ji++) Stor (intj=0;j<v;j++) { if (i = = j) Zent Ei] [j]=0; via [i][j]=i', nt[i][j]=9999; via [i] [j] = 100; static void point - tables () 2 for (inti=0; i< v; i++) for (int j = 0 ; j < v jj + +) 11); { Sohln ("Dist: "+nt[i][j]+"

softn ();