LAB PROGRAM 3: Unte aprogram distance retor algorithm to direct (ode: Hinclude Lstalib.h Adefine nul 1000 # define nodes 10 int no; struct node int a [rodes][4]; 3 xouter [nodes]; roid init (int r) int? for (int i=1; 16=10; 17+) router [r] a [i] [i]=i; souter [r]·a[i][2] = 9a9; souter [r]·a[i][3] = nul; router [7].a[7][2]:0;
router [7].a[7][3]:v; roid inp (int 2)

Print + ("In Enter dist from the node "led print) ("In ple priter and "I thouse "led podixit route [n" les). Jes (i=1; iz=no; i+1) 4 (1 1 = x) Print (" | Entordist to the node lod: i)

Scant ("4 ud" & scatter (4) a (1)[2]); roid duplay (intr) Point + C" [n | n the routing table for node god is as follows: ", est, for (i*= 1; i = no; i++) (router [21]. a [1][2] \ 2999) frint ("In It It H. god It no Link It no hop", souter [ar] a[i][i]); print + ("In | E| E| t olod | t god | t

| t d' nouted [ed] . a [i] [l], routed [ed].

a [i] [[e] nouted [r] . a [i] [e]);

int autside the conace a roid dra algolist involves Bi s a tool, kin o a project ide during is critical al sampli to use a ilation of (souter Car). ali P s now nd a di uring ' router [r].al the no. of

inp (i) 9999 family ("In the Confirmation of the rodge offer instigligation is as follows").

display (?):

outplay (?): du algo(i);

print f (') In The Configuration of the noder

ofter Conputation of paths is as fallow:

desplay (i);

while (i) [i]an Print (" | wanna lontimes (y(n):"); Scant ("ofoc" & Companie if (chocie ==n) brale, Print + (" In Enter the rodes bt n union shortest path is to be found: (n') Porth ("In The length of the shortest.

Porth- is god's, nouter [X], a(y)[d).

(Sulful lenter the noing rodes Distance from mode 1. box 1. Mach 3 1 2 2 1 o nowy; , 1 Distance from 1000 2 lock Commence of the land of the la to node 4: 3 Distance Joom, node & to Other To: Node 1 9ad to mod 2 : 3 Distance from node 4 to other 10 to node 1 1 1 to node 2 2 1

Routing lable for rock has fulled 00: no hop Routling table for node a Routing lable for node 3 no hop Routing lable for node 4 d d 1 2 d

