IBMISCSO71 BATCH B2 PRANAY JAGADEÉSH PROGRAM - 1 Write program for déclance nector algorithm # include (conio h) # include (northeam.h) # define MAX 10 int nj class nouter { chak adj-new [MAX], adj-old (MAX]; int table_new [MAX], table_old [MAX]; pullie: Fronter () { for (int i = 0; i < MAX; i++)
table old [i]=table new [i]=99; poid copy () {
for (int i = 0; i < n; i++) { aidj -old[i]=adj_new[i])
fable-old[i]=table_new[i]) ent equal () ? ent equal () i

for (int i = 0; i < n; i+t)

Dif (table-old[i]) = table-new[i] fadj-new[i] [=adj-old[i])

a dnum 0; return 0; noed input (int j) { out < c "Enter I if the corresponding exacter is adjacent for everter "1< < (char) (A"+j) < c " che enter 99:4 C c endl< < " 1";

```
for [ int i = 0 ; i < n ; itt)
 if (i!=j) cout << (char)(1A/+;) Zc"";
  cont < " In Enter Matrix "
 for (i = 0 j; en; i++) {

if (i=-j)
     table _new(i) = v)
    cin>> table -new [i];
    adj-new(i)=(har)('A'+i);
  cont < c cond;
nord dieplay (){
     cont < " In Destination Router ? ";
   for (inti=viicngitt) cont << (cheen)('A'+i) < c"
    cout << " \n Outgoing hime: ";
  for (int i = 0; icn; it) cont (Cadj-new [i]<<!! ")

cout < C " In Hop Court: ";
   for (i=o; i<m; i+t) cont ce table - new [i] << "1".
 noid. build (int j) {
 for (int; = 1); (en; ); ++)
 for (int K=0; (il=j) (& (KCn); K++)
  if [table_old[i]]= 99)
  if (table-new (;) + (i). table-new [K] < fable-new [K]) i
         table-new(x) = table-new(i) + & [i] table_new(x);
       adj-new[K)=(char)(1A1+i);
3 2 [10]
```

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noid build-table () {
  int i= 0, j=0)
  while (i \mid = n) {
  for (i=j, (n; i++)?
       2(i).copy();
2(i).huild(i);
   for (i=v;icn jitt)
     if (1 h[i]. equal ()) {
             j = i
 noid main () {
  elever ();
  cont << "Enter number the routers (ZC "MAX "(CL): "
cin >>n;
  for (inti=0) icn) itt) 15(i). input (i);
    build - table ();
  cont <</ri>
Contex Table entreis for nonter "
((char)('A'+i)
   r(i). dirplay ();
    cout < endl < endl;
  geteh () i
```