```
destination router & hop court
Distance vector algorithm
# define MAX 10
class soutu of.
   char adj-new [MAX] adj-old [MAX];
int table-new [MAX], table-old [MAX];
 public:
     for (int i=0; ixMAX; i++)
         table_old[i] = table_new[i] = 99;
 void copy. (16.

for (int i=0; i<n; i++)d.

adj-old(i] = adj-new(i);
     -table-old [i] = table _new [i];
int equal () of.
   for (int i=0; i<n; i++)
       if (-lable_old[i]!= table_new[i] || adj_new[i]!=adj-old[i])
      velun 1 etuen 0;
```

```
void input (int j) &
     cout KK Enter 1 if the corresponding router is adjan
    to routin "<<(char) ('A' +j) << "else enter 99:
      < < endl < < "
    for (int 1=0; 1<1; 1++)
       if (i!=j) cout << (char) ('A'+i) <<""
            cout << " In Erle matrix! ,
      for (1=0; ikn; i++) d
          if (i==i)
               table-new[i] =0;
           else
              cin >> table_new[i];
              adj-new [i] = (char) ('A'+i);
       cout < Kendl;
    void display () of
       cout KY. "In Destination Router:"
      for (int i=0; ixn; i++) cout <<. (char) ('A'+i) <<
     for (i=0; 1<n; i++) cout <adj-new[i]</a>
         cout << "m Hop Count";
    for (1=0; i<n; i+t) coct<<table_now(i)<<"", }
    void build (int j) L.
      for (int i=0; i<n; i++)
     for (int k=0: (i!=j) {8 (k<n); kep)
if (table_old.[i]!= 99)
     if (table new [i] + of ]. table_new [le] < table new [i]
    of table_new (4) = table_new (i) fr (i) table_new (4);
      adj-new (1) = (char) ('A'+i);
9 x [0];
```

```
build-table () f
  void build table ()

int izo; j = 0;

volide (il = n) R
       for (i=j;j<n;i++) {

r(i).copy();
           o [i] build (i);
    for (120; i<n; i++)
     if (!v[i]. equal(i). f.
     break',
  void main (1 d
     clasca (7)
     cout<< "Entir no.) router (<< "M4x"<5");"
      cin>>n;
    for (int i=0; ixn; i++).
    build_table();
  for (1=0; ixn; i++) f.
      cont << "Router table enter for locker" ( (che)
    ('A'+i) < 4":-"
    -o[i]. display (1', cout < x endl ; x endl;
+ getch (1;
```