```
# include & stdio. h7
# include < stdlib. h>
# define INFINITY 9999;
# define Max 5
 Void dijkstra (Fut Cost Bright Congret), int mil
                   Hady
     int distance EMAXJ, Path EMAXJ;
     int visited [MAN], Count, minidistance, My
     Por Ci=0:120:1++)
         . distance [i] = Cost [startnode][i]
          Path [i] = startnode;
          Visted cij = 0;
       Clistance [start node] = 0 juin 1
       Visite d Cotant node) = i:
    Count =1;
        While Count & n-1) of topradal
                  Printering Carryn-1
            minidistance = INFINITY;
            For Ci=0; iz n; i++)
               et (distance Ci) ¿minidistante
                               7 P 1 Visitede
                minidistance = distance(i)
                 & next note = i;
```

Visited [newfor 1-7-1-

```
-for ("=0; Tzn; i++)
             W. P. of G. I rama ( ram) p for
( if C) visited (i))
         if Cminidistance + Got [newtrock][]
(: Ldistance [i])
              distance (i) = mini di stance +
              Pall [i] = next node; Cost [next node][i];
2 3 Count ++;
for Ci=0; izn; i++)
  if (il = start node)
    printf (" In Distance of 7.d= 7.d", i)
   Print (" In Path = 1/6d", i); Clist ance Ci D;
     Jzi;
                          14 A 1 1 1 1 1
      do
         { j= pall cij;
  Printf (" <-!d", j);

Juhile (j! = start nock);
```

```
(#11-0" - 1 vo]
 Void mais ()
  E fut g EMAXIEMAXJ, i, i, n, u;
     Print & ( " In Enter the no of vertices: ").
Scarif ("J.d", An)
   Print & Ca In Enter the adjuncy matrix: 1"
  - Por (i=0; 12 n; 1++)
Men. End
      - For Ci=ojknij+)
           Scamp ("Ld", Rq [i][i]);
             if Cgci)(1)==0)
             E g cisci) = INFINITY;
        Printf (acln");
Print & (a In Coler the starting nocle: );
     Scant (".d", 2n);
    dijikstra (g, n, u);
```