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FIRST SEMESTER MIN (2020 SCHEME)
                                      1CK=20MCA - 2031
                                     Dale: 30 June 2021
 PRACTICAL EXAMINATION JONE-JULY
                                     7ime: 4:00 - 1:00 -4:00
l' Weile a program la meege lour sorted avongs.
 Program
  #include < stdio. h>
 the include < conio.h>
  toid moun ()
  int auray 1 [50], away 2 [50], away 3 [100], M, n, i, j, k=0;
  clasca();
 Point [ "In Enter . The size of the away Meay 1:);
  Scan F (4%, d6, 5m);
 Point F (4/n Enter souled elements of away1:/h);
  FOI (1=0; (Km; 1++)
 Scan F (41/29, $ every 1(1));
Pointf ("In Enta the
                       size of the auray Areay 2:");
scan f. (47. d, $n);
Point F (Uln Enter Souled elements of accept p: In');
  For (100; 14)
  scanf (4.1.94, $ culay 0[:]);
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Scent ( "7.0", 9 allow 2
 while (imssign)
 ? (cueay) & [:) < areay ? [:])
 away 3 [K] = away 1 [i];
 3 else
  away 3(K) = allays[j];
   j++;
  ib (ir=m)
   Ecohile (j<n)
   away 3(K) 2 away a(i);
 ef (jr=n)
  while (icm)
   areny 3 (K) = areny 1 (i);
```

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श्नम ;
 Kett .
point F ("In Aple Meging: In);
 Too (120; 12 m +n; 14)
 Point F (4 In).d', away 3[9]);
 getch ();
Output
Finder the size of the away Array 1:3
Ender sooled elements of away 1:
 123
Ente the size of the away Arrowy 2:3
 Enter sooled elements of curay 2:
3 6 7
A meging
```

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2. weile a program to implement proins Algorithm.
  Proogram
  # include < stdio. h >
   # include (conjo.h)
  int a, b, u, v,n, i, j, ne=1;
  int- visited [10] = {0}, min, miniost = 0, cost [10][10];
  World movin ()
  (125170)
  Point F ("In Enter the number of nodes:");
  Scan F (41, dh, sh);
 Points (41n Enter the adjacency madeix: (n);
  For (1=1; 1<=n; (++)
  For (j=1; j<2n; j++)
  Scanf (4 %, a", $105 [ 1)[1]);
    if (105/- (i) [i] ==0)
      cost(i)@[) = 999;
 Visited [] =1;
 Proint F (4/nx);
 while (nexn)
 Por (121, min 2999; ik=n; i++)
       For (j=1; jx=n; j++)
      ? 12 (cost-[i] [i] Kmin)
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it- ( visited (:)! = 0)
min o cost (i)[i];
     9=4=1;
     b = U=j;
     in Cuisited (4) = =0 visited (v] ==0)
Proint = (41h Edge 1.d: (1.47.d) cost: 1.d', ne ++, a, b, min);
    min cost +=min;
       النوا
    Visited (b)=1;
 cost [a] [b] = cost [b][a] = 999;
3 point F( v In minimum cost: ".dln", min cost);
        9 etch (;
output.
Ender the number of noda '6
Enlew the adjenery matrix:
  0 3 1 6 00
 303030
  156564
  605002
  0 3 6 00 6
  004 260
 Edge 1: (13) (05+:1
 Edge 2: (12) (0st:3
```

Edge 8: (25) 10st: 4

Edge 5: (6,4) 10st: 2

Minimum 10st: 13