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NAME: - NODI PARTANYA
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ADA LAB TEST.

0 5 # in

include estdio.h)

int u, v, n, i, j, k = 1;

int visited [10], weight [10][10], min, min weight=0;

int main () of

printf (" \n Enter the number of nodes: "):

Scanf ("7.d", 2n);

printf (" n Enter the adjancency matein: \");

printfl" in Enter the 9999 for infinity in");

gor (i=1; ic=n; i++)

tor (j=1;j c=n;j++) d

scanf ("1. d", 2 weight EiJEjJ);

if (acight EiJEj7 = =0)

L weight EiJCjJ = 999;

Visited[i] = 1;

print("\n");

while (KCn) &

tor (i=1, min=9999; i <=n; i+t)

tor(j=1; j <= n; j+t)

2 it (weight [i][i] (min)

& if (visited Ci] =! 0)

& Limin = weight Ci] [j];

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if (visited [U] == 0 [ wisited EV] == 0)
                  printf ("in (7.d 1.d) weight: 7.d", u, v, min);
                    min weight + = min;
                    vuited CVJ = 1;
                weight [u][v] = weight [v][u] = 9999;
             print ("In Total minimum weight = 1.de, minweight);
             returno;
Modified: -
 # include < stdio. h>
  int specified - nool = 2;
  int minikey (int key[], int mst Set[], int n)
    d int min = 100, min - ionder;
       for (V=0; V<n; V++)
        if ImstSet [v] == 0 A& key [v] < min)
             ~ min = key [V], min - index = V;
             return min-index;
```

```
int paint MgT lint pakent [10], int graph[107[10], intn)
    printf ("Edge It Weight \n");
    tor(i=1)icn;i++)
     d it [ paeent [i] > 10),
        printf ("1.d - 7.d It 7.d in", palent [i], i, graph [i] [parent [i]])
void prim MST (int graph [10][10], intn)
   int parent [n];
    int metset [n];
    int i, count, V, u;
    for (i=0; icn; i++)
        key [i]=100, met Set [i]=0;
    Rey[0] = 0;
     parent[0]=-1;
    met let [specified-node]=1;
         for (inti=0; icn; i++)
              for (int j=0; jcn; j+t)
              d print ("1.d \t", graph (i)[i]);
               print f ("\n"); }
```

```
for ( count = 0; count < n-1; count + t)
     U = mini key (ky, met set, n);
     mist Set [w]=1;
     for (v=0; vcn; v++)
          if (graph ENJEVJ! =026 graph ENJEV]! =99920
met Set [J] ==020 graph ENJEV] < key[v])
           parent[v] = u;
    key[v] = graph[n][v];
         print MST ( parent, graph, n);
  int main ()
     int graph [10][10];
      int i, i, M;
      printf ("Enter number of modes (n");
       Scanf ("1-d", 2 n);
       print f ("Enter adjacency matein (n");
       for (i=0; izn; i++)
         R for (j=0;j(n;j++)
             scanf ("1.d, & graph [i][j]);
              for (int i=0; icn; i++)
              d for (int)=0; j < n; j++)
              & if (i == specified - node" j == specified noch)
                 if (i = = j); else pein MST (geaph, n); setwar 0;
```