```
ADA LAB
                             Namare Style
                              18M1903099
 Dijtestra's algorithm
                              4-B
Hinclude LS+dio. h)
   int n, CE107[10], src, dest [10], viel[10]
int main ()
    pointf(" Enter the number of nextices
     in the graph");
     scanf ("1.d", 2n);
     printf ("Enter the cost adjacency
      motorix (n");
      for (int i = 0; ich s; i++)
      for (int j=0; jxn, j++)
           scarf ("x-d", cliz[3]);
       prints("Enler souru nertex (");
       Scaref ("1.d", 2 src);
        dijkstra ();
         printf (" shortest path from m");
```

```
forCFF int i=1; i<= h; i++)
      pointf("-id >> y.d = 1.d", soc, i, dutcis);
void dijkstra ()
1 jut a; int counts nin;
  for ( int ) = 1; i <= n; i++)
   distcil = cest [ soc] [i];
  Vis [SXC] =1;
  while ( count < n)
    nin = 999;
     for (= int i= 1) ic= n; 1++)
        if (dut li] < min 22 visli2 == 0)
      d
min = dest Ci];
           u= i;
        wis[u] = 1;
```

```
for ( int i = 1; ic=n; i++)
     if ((dest tu] + costruztiz) < dut til 22 wistiz:
          dutti] = dut (0) + lost (0) cia;
   Count + +;
  Modifications:
it number E 107;
    for ciut i =0; izh; i++)
    2 if(i==soc) humber[i]=1
       number [i] = 2; // since minimum no of
                         hodes in any pater is
    increment number Lil ener if
     distibil t wit cultil a distil
```

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