LAB. TEST-2 () long to the top his this

NAME - TUSHAR . A. PAZ USN- IBMI9CS174 SEC SEM - D 4th DATE - 5th July 2021 Sign - Tuskag Pergeam - 6 Kenskals algarithm # include <stdio.h> # include < std/ib.h> int i, i, k, a, b, u, u, n, ne=1; int min, mincost=0, cost[9][9], parent[9]; int find (inti) & mehile (parent [i])

3

i = parent [i];

return i;

TUSHAR PAI

min = cost[i][i]: a = u = i') 5=10=11 un = find (u); w=find (v) if(uni (u, w) E prentf (" "a)od redge (olod, olod) In", NE++, a,b, min); mulcast + = min; Lost [a] [b] = cost [b] [a] = 999.

perent ("In the It Minimum cost = "lod In", muncost);

Medification.

To defect cycles in the graph were use the. Union- Find algorithm as it was an incremental edge colding appeared to defect cycles

```
(1 chadrust bias
{ count = 0 | K=0 | Som = 0 ; }
   for(1:0) 1 (n; i++)
      borent (i) = i;
  uchile (cont 1 = nun-edge)
    9 invir = 999;
      for (1:0; 1:1++)
        2 tm/1=0 1,1 (n; 1++)
          و ا ا ا ( معد د ا ا ا ا ) ( معمد ل ف معد د ا ا ا ا ) ا = 0 )
              { our = contaili);
         3 3 3
     i = ford (N);
     i = find(u);
     ifli=i)
     & prolif (" Vertext forming eylle . I od & olod In, u, u);
         (aust + +; 3)
   everything else same as original peagram
```