```
#include<stdio.h>
     #include<conio.h>
     void kruskals();
     int c[10][10],n;
     void main(){
13 -
           int i,j;
printf("\nEnter the no. of vertices:\n");
14
15
           scanf("%d",&n);
printf("\nEnter the cost matrix:\n");
16
17
           for(i=1;i<=n;i++){
18 -
                for(j=1;j<=n;j++){
    scanf("%d",&c[i][j]);
19 -
20
21
22
           kruskals();
23
24  getch();
25 }
26 void kruskals(){
           int i,j,u,v,a,b,min;
27
           int ne=0,mincost=0;
28
           int parent[10];
for(i=1;i<=n;i++){
    parent[i]=0;</pre>
29
30 -
31
           }
while(ne!=n-1){
32
33 -
                min=9999;
34
                for(i=1;i<=n;i++){
    for(j=1;j<=n;j++){
        if(c[i][j]<min){</pre>
35 +
36 =
```

```
32
       }
while(ne!=n-1){
33 -
34
           min=9999;
           35 -
36 -
37 -
38
39
                       u=a=i;
40
                       v=b=j;
41
42
43
            }
while(parent[u]!=0){
 44 -
                u parent[u];
 45
            while(parent[v]!=0){
 46
 47 -
                v=parent[v];
 48
 49
            }
if(u!=v){
 50 -
                printf("\n%d---->%d=%d\n",a,b,min);
 51
 52
                 parent[v]=u;
 53
                 ne=ne+1;
  54
                 mincost=mincost+min;
  55
             }
c[a][b]=c[b][a]=999;
  56
57
          }
printf("\nMinimun cost=%d",mincost);
  58
  59 }
  60
61
```

```
Input

Inter the no. of vertices:

4

Inter the cost matrix:
999 999 4 999
2 8 999 999
1 999 699
999 999 3 9
3---->1=1
2---->1=2
4---->3=3

Minimun cost=6
... Program finished with exit code 0

Press ENTER to exit console.
```