```c
#include<stdio.h>
#include<conio.h>
int a,b,u,v,n,i,j,ne=1;
int visited[10]={0},min,mincost=0,cost[10][10];
void main(){
    printf("\n Enter the number of nodes:");
    scanf("%d",&n);
    printf("\n Enter the adjacency matrix:\n");
    for (i=1;i<=n;i++)
      for (j=1;j<=n;j++){
        scanf("%d",&cost[i][j]);
        if(cost[i][j]==0)
            cost[i][j]=999;
    }
    visited[1]=1;
    printf("\n");
    while(ne<n) {
        for (i=1,min=999;i<=n;i++)
            for (j=1;j<=n;j++)
              if(cost[i][j]<min)
                if(visited[i]!=0) {
                    min=cost[i][j];
                    a=u=i;
                    b=v=j;
                }
        if(visited[u]==0 || visited[v]==0) {
            printf("\n Edge %d:(%d %d) cost:%d",ne++,a,b,min);
            mincost+=min;
            visited[b]=1;
```

```c
14        scanf("%d",&n);
15        printf("\n Enter the adjacency matrix:\n");
16        for (i=1;i<=n;i++)
17           for (j=1;j<=n;j++){
18              scanf("%d",&cost[i][j]);
19           if(cost[i][j]==0)
20              cost[i][j]=999;
21        }
22        visited[1]=1;
23        printf("\n");
24        while(ne<n) {
25            for (i=1,min=999;i<=n;i++)
26                for (j=1;j<=n;j++)
27                   if(cost[i][j]<min)
28                    if(visited[i]!=0) {
29                   min=cost[i][j];
30                   a=u=i;
31                   b=v=j;
32                }
33            if(visited[u]==0 || visited[v]==0) {
34                printf("\n Edge %d:(%d %d) cost:%d",ne++,a,b,min);
35                mincost+=min;
36                visited[b]=1;
37            }
38            cost[a][b]=cost[b][a]=999;
39        }
40        printf("\n Minimum cost=%d",mincost);
41        getch();
42    }
43
```

```
Enter the number of nodes:5

Enter the adjacency matrix:
0 2 0 8 1
5 0 0 0 9
6 4 7 0 0
9 0 1 3 0
0 0 2 0 8


Edge 1:(1 5) cost:1
Edge 2:(1 2) cost:2
Edge 3:(5 3) cost:2
Edge 4:(1 4) cost:8
Minimum cost=13

...Program finished with exit code 0
Press ENTER to exit console.
```