## PROGRAM:-

```
#include<stdio.h>
int a,b,u,v,n,i,j,ne=1;
int visited[10]={0},min,mincost=0,cost[10][10];
void main()
{
    printf("\nEnter the number of nodes:");
    scanf("%d",&n);
    printf("\nEnter 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++)</pre>
        for(j=1;j<=n;j++)</pre>
```

```
if(cost[i][j]< min)</pre>
  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;
  }
   cost[a][b]=cost[b][a]=999;
printf("\n Minimun cost=%d",mincost);
```

```
printf("\n Minimun cost=%d",mincost);
getch();
}
```

## OUTPUT:-

```
Enter the number of nodes:5

Enter the adjacency matrix:
0 1 5 2 0
1 0 0 0 0
5 0 0 3 0
2 0 3 0 1
0 0 0 1 0

Edge 1:(1 2) cost:1
Edge 2:(1 4) cost:2
Edge 3:(4 5) cost:1
Edge 4:(4 3) cost:3
Minimun cost=7

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