

ab4_ada.c X adalab4.c X

```

#include<stdio.h>
#include<conio.h>
int a[1][10];
void dfs(int n, int cost[10][10], int u, int s[])
{
    int v;
    s[u]=1;
    for(v=0;v<n;v++)
    {
        if((cost[u][v]==1) && (s[v]==0))
            dfs(n, cost, v, s);
    }
}
void main()
{
    int n,i,j,cost[10][10],s[10],con,flag;
    printf("Enter the number of nodes\n");
    scanf("%d", &n);
    printf("Enter the adjacency matrix\n");
    for(i=0;i<n;i++)
    {
        for(j=0;j<n;j++)
            scanf("%d", &cost[i][j]);
    }
    con=0;
    for(j=0;j<n;j++)
    {
        for(i=0;i<n;i++)
            s[i]=0;
        dfs(n, cost, j, s);
        flag=0;
        for(i=0;i<n;i++)
        {
            if(s[i]==0)
                flag=1;
        }
        if(flag==0)
            con=1;
    }
    if(con==1)


```

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```
s[u]=1;
for(v=0;v<n;v++)
{
    if((cost[u][v]==1) && (s[v]==0))
        dfs(n, cost, v, s);
}
}

void main()
{
    int n,i,j,cost[10][10],s[10],con,flag;

    printf("Enter the number of nodes\n");
    scanf("%d", &n);
    printf("Enter the adjacency matrix\n");
    for(i=0;i<n;i++)
    {
        for(j=0;j<n;j++)
            scanf("%d", &cost[i][j]);
    }
    con=0;
    for(j=0;j<n;j++)
    {
        for(i=0;i<n;i++)
            s[i]=0;
        dfs(n, cost, j, s);
        flag=0;
        for(i=0;i<n;i++)
        {
            if(s[i]==0)
                flag=1;
        }
        if(flag==0)
            con=1;
    }
    if(con==1)
        printf("Graph is connected\n");
    else
        printf("Graph is not connected\n");
    getch();
}
```

 "C:\web developement(html.css.js)\lab4_ada.exe"

Enter the number of nodes

4

Enter the adjacency matrix

0 0 0 1

1 1 0 0

0 0 1 0

0 0 0 1

Graph is not connected