**PROG 2**

#include<stdio.h>

Int a,b,u,v,n,i,j,ne=1;

intvisited[10]={0},min,mincost=0,cost[10][10];

void main()

{

printf("\nEnterthenumberofnodes:");

scanf("%d",&n);

printf("\nEntertheadjacencymatrix:\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("\nEdge%d:(%d%d)cost:%d",ne++,a,b,min);

mincost+=min;

visited[b]=1;

}

cost[a][b]=cost[b][a]=999;

}

printf("\nMinimuncost=%d",mincost);

}