```
Code:
#include<stdio.h>
#include<conio.h>
void kruskals();
int c[10][10],n;
void main()
{
int i,j;
printf("\nenter the no. of vertices:\t");
scanf("%d",&n);
printf("\nenter the cost matrix:\n");
for(i=1;i<=n;i++)
{
for(j=1;j<=n;j++)
{
scanf("%d",&c[i][j]);
}
}
kruskals();
getch();
}
void kruskals()
int i,j,u,v,a,b,min;
int ne=0,mincost=0;
int parent[10];
for(i=1;i<=n;i++)
```

```
{
parent[i]=0;
}
while(ne!=n-1)
{
min=9999;
for(i=1;i<=n;i++)
{
for(j=1;j<=n;j++)
if(c[i][j] < min)
{
min=c[i][j];
u=a=i;
v=b=j;
}
}
}
while(parent[u]!=0)
{
u=parent[u];
}
while(parent[v]!=0)
{
v=parent[v];
}
if(u!=v)
```

```
{
printf("\n%d----->\%d=\%d\n",a,b,min);
parent[v]=u;
ne=ne+1;
mincost=mincost+min;
}
c[a][b]=c[b][a]=9999;
}
printf("\nmincost=%d",mincost);
}
Output:
enter the no. of vertices:
                                  3
enter the cost matrix:
10 20 13
30 40 50
18 16 14
1---->3=13
3---->2=16
mincost=29
 ...Program finished with exit code 0
Press ENTER to exit console.
```