Code:

```
 #include<stdio.h>
#include<conio.h>
void prims();
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]);
}
}
prims();
getch();
}
void prims()
{
int i,j,u,v,min;
int ne=0,mincost=0;
int elec[10];
for(i=1;i<=n;i++)
```

```
{
elec[i]=0;
}
elec[1]=1;
while(ne!=n-1)
{
min=9999;
for(i=1;i<=n;i++)
{
for(j=1;j<=n;j++)
{
if(elec[i]==1)
{
if(c[i][j]<min)
{
min=c[i][j];
u=i;
v=j;
}
}
}
}
}
if(elec[v]!=1)
{
printf("\n%d----->%d=%d\n",u,v,min);
elec[v]=1;
ne=ne+1;
```

```
mincost=mincost+min;

}

c[u][v]=c[v][u]=9999;

}

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

}
```

Output: