```
#include<stdio.h>
void prims();
int c[10][10],n;
void main()
{
  int i,j;
  printf("\n enter the number of vertices:\t");
  scanf("%d",&n);
  printf("\n enter the cost matrix:\n");
  for(i=1;i<=n;i++)
  {
   for(j=1;j<=n;j++)
    {
      scanf("%d",&c[i][j]);
   }
  }
  prims();
}
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;
         ν=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("\n mincost=%d",mincost);
}
```