```
#include<stdio.h>
void prims();
int cost[10][10], vis[10], vt[10], et[10][10], edge[10][10], e=0,i,j,k,u,v,sum=0,n,m;
void main()
{
    printf("Enter the number of vertices\n");
    scanf("%d",&n);
printf("Enter the cost of adjacency matrix\n");
    for(i=1;i<=n;i++)
         for(j=1;j<=n;j++)
             scanf("%d",&cost[i][j]);
    prims();
    printf("Minimum Spanning Tree:\n");
    for(i=1;i<=e;i++)
         printf("\n%d\(\text{\text{\text{m}}\) d \(\text{", et[i][1],et[i][2]);}
         printf("\nTotal Cost= %d",sum);
void prims()
    int x=1, min;
    vt[x]=1;
    vis[x]=1;
    for(i=1;i<=n;i++)
    {
         j=x;
         min=999;
         while(j>0)
             k=vt[j];
             for(m=2;m<=n;m++)
             {
                  if(cost[k][m]<min && vis[m]==0)
                  {
                      min=cost[k][m];
                       u=k;
                      V=m;
                  }
             j--;
    vt[++x]=u;
    et[i][1]=u;
    et[i][2]=v;
    e++;
    vis[v]=1;
    sum=sum+cost[u][v];
```

```
× Terminal
```

```
Enter the number of vertices
4
Enter the cost of adjacency matrix
0 1 5 2
1 0 999 999
5 999 0 3
2 999 3 0
Minimum Spanning Tree:
1->2
1->4
1->3
1->3
Total Cost = 13
```