```
#include<stdio.h>
int ary[10][10],completed[10],n,cost=0;
void takeInput()
{
    int i,j;
    printf("Enter the number of villages: '
    scanf("%d",&n);
    printf("\nEnter the Cost Matrix\n");
    for(i=0; i < n; i++)
    {
        printf("\nEnter Elements of Row: %
        for( j=0; j < n; j++)
            scanf("%d",&ary[i][j]);
        completed[i]=0;
    }
    printf("\n\nThe cost list is:");
    for( i=0; i < n; i++)
    {
        printf("\n");
        for(j=0; j < n; j++)
            printf("\t%d",ary[i][j]);
    }
}
void mincost(int city)
{
    int i,ncity;
    completed[city]=1;
    printf("%d--->",city+1);
    ncity=least(city);
```

```
ncity=least(city);
    if(ncity==999)
        ncity=0;
        printf("%d",ncity+1);
        cost+=ary[city][ncity];
        return;
    }
    mincost(ncity);
}
int least(int c)
{
    int i,nc=999;
    int min=999,kmin;
    for(i=0;i < n;i++)</pre>
    {
        if((ary[c][i]!=0)&&(completed[i]==0)
             if(ary[c][i]+ary[i][c] < min)</pre>
             {
                 min=ary[i][0]+ary[c][i];
                 kmin=ary[c][i];
                 nc=i;
             }
    }
    if(min!=999)
        cost+=kmin;
    return nc;
}
int main()
{
    takeInput();
    printf("\n\nThe Path is:\n");
    mincost(0); //passing 0 because starti
    printf("\n\nMinimum cost is %d\n ",cos"
    return 0;
}
```