Roll no.:2101062 Subject: Data Structure and Algorithm Laboratory Assignment No.6 #include<iostream> #include<queue> usingnamespacestd: intadj\_mat[50][50]={0,0}; intvisited[50]={0}; intmain() intn,u; cout<<"Enterno.ofcities:"; cin>>n; stringcities[n]; *for(inti=0;i<n;i++)* cout<<"Entercity#"<<i<"(AirportCode):"; cin>>cities[i]; cout<<"\nYourcitiesare:"<<endl; *for(inti=0;i<n;i++)* cout<<"city#"<<ii<<":"<<cities[i]<<endl; *for(inti=0;i<n;i++)* for(intj=i+1;j<n;j++) cout<<"Enterdistancebetween"<<cities[i]<<"and"<<cities[j]<<":"; cin>>adj\_mat[i][j]; adj\_mat[j][i]=adj\_mat[i][j]; cout<<endl; *for(inti=0;i<n;i++)* cout<<"\t"<<cities[i]<<"\t"; *for(inti=0;i<n;i++)* cout<<"\n"<<cities[i]; for(intj=0;j< n;j++)cout<<"\t"<<adj\_mat[i][j]<<"\t"; cout<<endl; } return0; } Enterno.ofcities:4 Entercity#0(AirportCode):m Entercity#1(AirportCode):p Entercity#2(AirportCode):d Entercity#3(AirportCode):k Yourcitiesare: city#0:m city#1:p city#2:d city#3:k Enterdistancebetweenm andp:4

Enterdistancebetweenm andd:6

Name: Abdulmuiz Khalid Shaikh

Enterdistancebetweenm andk:8
Enterdistancebetweenpandd:2
Enterdistancebetweenpandk:6
Enterdistancebetweendandk:1
m p d k
m 0 4 6 8
p 4 0 2 6
d 6 2 0 1
k 8 6 1 0
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