```
      MENU
            1.Enter Adjacency list
            2.Display Graph
            3.Prim
            4.Display minimum spanning tree
            5.Re_Enter
            6.Exit
Enter Choice : 1

Enter number of cities : 5

Enter data of 1 th city
Enter name of the city : mumbai

Enter data of 2 th city
Enter name of the city : pune

Enter data of 3 th city
Enter name of the city : nagpur

Enter data of 4 th city
Enter name of the city : surat

Enter data of 5 th city
Enter name of the city : amravati

Enter cities to which mumbai is connected :
Enter name of the city or (-1) if there are no more directly connected city :
pune

Enter distance : 100

Enter name of the city or (-1) if there are no more directly connected city :
surat

Enter distance : 100

Enter name of the city or (-1) if there are no more directly connected city : -1

Enter cities to which pune is connected :
Enter name of the city or (-1) if there are no more directly connected city :
mumbai

Enter distance : 100

Enter name of the city or (-1) if there are no more directly connected city :
surat

Enter distance : 300

Enter name of the city or (-1) if there are no more directly connected city :
nagpur

Enter distance : 800

Enter name of the city or (-1) if there are no more directly connected city : -1

Enter cities to which nagpur is connected :
Enter name of the city or (-1) if there are no more directly connected city :
pune

Enter distance : 800
```

```
Enter name of the city or (-1) if there are no more directly connected city :
amravati

Enter distance : 300

Enter name of the city or (-1) if there are no more directly connected city : -1

Enter cities to which surat is connected :
Enter name of the city or (-1) if there are no more directly connected city :
mumbai

Enter distance : 100

Enter name of the city or (-1) if there are no more directly connected city :
pune

Enter distance : 300

Enter name of the city or (-1) if there are no more directly connected city : -1

Enter cities to which amravati is connected :
Enter name of the city or (-1) if there are no more directly connected city :
nagpur

Enter distance : 300

Enter name of the city or (-1) if there are no more directly connected city : -1
      MENU
            1.Enter Adjacency list
            2.Display Graph
            3.Prim
            4.Display minimum spanning tree
            5.Re_Enter
            6.Exit
Enter Choice : 2

mumbai<- pune<- surat
pune<- mumbai<- surat<- nagpur
nagpur<- pune<- amravati
surat<- mumbai<- pune
amravati<- nagpur
NULL
      MENU
            1.Enter Adjacency list
            2.Display Graph
            3.Prim
            4.Display minimum spanning tree
            5.Re_Enter
            6.Exit
Enter Choice : 3

This is marked in friends : pune

This is marked in friends : surat

This is marked in friends : nagpur

This is marked in friends : amravati

      MENU
            1.Enter Adjacency list
```

```
            2.Display Graph
            3.Prim
            4.Display minimum spanning tree
            5.Re_Enter
            6.Exit
Enter Choice : 4

     mumbai ::   <- pune( 100 )  <- surat( 100 )
     pune ::   <- nagpur( 800 )
     nagpur ::   <- amravati( 300 )
     surat ::
     amravati ::
Min dist : 1300

      MENU
            1.Enter Adjacency list
            2.Display Graph
            3.Prim
            4.Display minimum spanning tree
            5.Re_Enter
            6.Exit
Enter Choice : 6
```