

Output :

```
WELCOME TO
CRIMENET

Enter your course of action to use the CRIMENET based on the given below options
1.PUBLIC
2.POLICE
3.EXIT
1

WELCOME TO
CRIMENET

1.Display Belgaum City ( In Table Format )
2.Display All the Police Stations of the Belgaum
3.Find nearest police station in the Belgaum city from crime spot by refferring above city map
4.Whom to contact to case a file in particular Police station
5.To Know the incharge of particular Police Station
6.Go Back
Enter your choice : 1
```

Location	PS	Destination
VTU	No	Machhe(4.00)
Machhe	No	Peeranwadi(1.00), VTU(4.00)
Peeranwadi	No	Khadarwadi(3.00), Udyambagh(3.00), Majgaon(2.50), Brahma nagar(1.00), Machhe(1.00)
Brahma nagar	No	Majgaon(1.00), Peeranwadi(1.00)
Majgaon	No	Udyambagh(2.00), Brahma nagar(1.00), Peeranwadi(2.50)
Udyambagh di(3.00)	Yes	Parwati nagar(1.60), Rani Chennamma nagar(1.80), Third gate(1.60), Angol(1.70), Khadarwadi(2.60), Majgaon(2.00), Peeranwadi(3.00)
Khadarwadi	No	Udyambagh(2.60), Peeranwadi(3.00)
Angol	No	Udyambagh(1.70)
Third gate	No	Tilakwadi(2.00), Hindwadi(2.30), Udyambagh(1.60)
Rani Chennamma nagar	No	Udyambagh(1.80)
Parwati nagar	No	Udyambagh(1.60)
Hindwadi	No	Tilakwadi(1.60), Shahapur(2.00), Vadagaon(2.00), Third gate(2.30)
Tilakwadi	Yes	Nanawadi(3.00), RLY Station(2.30), Shahapur(2.00), Hindwadi(1.60), Third gate(2.00)
Vadagaon	No	Shahapur(2.50), Khasbag(1.00), Hindwadi(2.00)
Shahapur	Yes	RLY Station(2.00), CBT(2.80), Belgaum Fort(2.40), Khasbag(1.80), Vadagaon(2.50), Tilakwadi(2.00), Hindwadi(2.00)
RLY Station	No	CAMP(1.70), Khade Bazar(2.20), CBT(2.20), Shahapur(2.00), Tilakwadi(2.30)
CAMP	Yes	Hindalga(4.00), Hanuman Nagar(3.70), Khade Bazar(1.70), Nanawadi(2.00), RLY Station(1.70)
Ganeshpur	No	Hindalga(1.30), Nanawadi(8.00)
Gandhi Nagar	No	Malmaruti Police Station(3.20), Belgaum Fort(1.80)
Malmaruti Police Station	Yes	Nehru Nagar(1.80), Ayodhya Nagar(2.30), North PS Belgaum(3.00), Gandhi Nagar(3.20), CBT(3.10)
North PS Belgaum	Yes	Ayodhya Nagar(0.50), Malmaruti Police Station(3.00), Khade Bazar(1.00), CBT(1.60)
Ayodhya Nagar	No	APMC(2.20), Nehru Nagar(2.00), North PS Belgaum(0.50), Malmaruti Police Station(2.30), Khade Bazar(1.50)
Market PS Belgaum	Yes	APMC(3.80), Khade Bazar(0.50)
APMC	Yes	Hanuman Nagar(4.00), Kangrali(4.00), Market PS Belgaum(3.80), Ayodhya Nagar(2.20), Khade Bazar(3.70)
Hanuman Nagar	No	Hindalga(2.00), APMC(4.00), CAMP(3.70)
Hindalga	No	Hanuman Nagar(2.00), Ganeshpur(1.30), CAMP(4.00)
Nehru Nagar	No	Kangrali(4.00), Kakati(5.70), Ayodhya Nagar(2.00), Malmaruti Police Station(1.80)
Kangrali	No	Kakati(4.00), Nehru Nagar(4.00), APMC(4.00)
Kakati	Yes	Honaga(3.50), Kangrali(4.00), Nehru Nagar(5.70)
Honaga	No	Kakati(3.50)
1.Display Belgaum City (In Table Format)		
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5.To Know the incharge of particular Police Station		
6.Go Back		
Enter your choice : 2		

The police stations are :

5 : Udyambagh
12 : Tilakwadi
14 : Shahapur
19 : CBT
20 : Khade Bazar
21 : CAMP
24 : Malmaruti Police Station
25 : North PS Belgaum
27 : Market PS Belgaum
28 : APMC
33 : Kakati

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6.Go Back
Enter your choice : 3

The locations are :

VTU	Machhe	Peeranwadi	Brahma nagar	Majgaon
Udyambagh	Khadarwadi	Angol	Third gate	Rani Chennamma nagar
Parwati nagar	Hindwadi	Tilakwadi	Vadagaon	Shahapur
RLY Station	Nanawadi	Khasbag	Belgaum Fort	CBT
Khade Bazar	CAMP	Ganeshpur	Gandhi Nagar	Malmaruti Police Station
North PS Belgaum	Ayodhya Nagar	Market PS Belgaum	APMC	Hanuman Nagar
Hindalga	Nehru Nagar	Kangrali	Kakati	Honaga

Enter the crime location : vtu

Shortest path to the nearest police station from crime node 0 is: 5(Udyambagh) <- 2(Peeranwadi) <- 1(Machhe) <- 0(VTU)

Nearest police station to the crime node 0 is 5 : Udyambagh

Min distance is : 8.00

To display shortest distance from crime node to all police stations in sorted manner w.r.t minimum distances(Press 1 for Yes and 0 for No) : 1

Number	Police Staion	Min Distance
5	Udyambagh	8.00
12	Tilakwadi	11.60
14	Shahapur	13.60
21	CAMP	15.60
20	Khade Bazar	16.10
19	CBT	16.10
27	Market PS Belgaum	16.60
25	North PS Belgaum	17.10
24	Malmaruti Police Station	19.20
28	APMC	19.80
33	Kakati	25.30

1.Display Belgaum City (In Table Format)
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6.Go Back
Enter your choice : 4

The police stations are :
5 : Udyambagh
12 : Tilakwadi
14 : Shahapur
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24 : Malmaruti Police Station
25 : North PS Belgaum
27 : Market PS Belgaum
28 : APMC
33 : Kakati

Enter the Police Station name : kakati

You should contact Rohit Singh

1.Display Belgaum City (In Table Format)
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5.To Know the incharge of particular Police Station
6.Go Back
Enter your choice : 5

The police stations are :
5 : Udyambagh
12 : Tilakwadi
14 : Shahapur
19 : CBT
20 : Khade Bazar
21 : CAMP
24 : Malmaruti Police Station
25 : North PS Belgaum
27 : Market PS Belgaum
28 : APMC
33 : Kakati

Enter the Police Station name : apmc

The Incharge(Sub-Inspector) is Rajendra Verma

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5.To Know the incharge of particular Police Station
6.Go Back
Enter your choice : 6

WELCOME TO CRIMENET

Enter your course of action to use the CRIMENET based on the given below options

- 1.PUBLIC
- 2.POLICE
- 3.EXIT

2

Please enter the password: *****

WELCOME TO CRIMENET

- 1.Display Belgaum City (In Table Format)
 - 2.Display All the Police Stations of the Belgaum
 - 3.Find nearest police station in the Belgaum city from crime spot by refferring above city map
 - 4.Search a criminal (is it available or not in database)
 - 5.Enter thr criminal data in database of particular Police Station
 - 6.To Know the incharge of particular Police Station
 - 7.Go Back
- Enter your choice : 4

WELCOME TO

CRIMENET

Enter the name of criminal : Sapna Rao

Enter the age of criminal : 25

Criminal found in Tilakwadi Police Station

TIL14,Sapna Rao,25,F,Bribery,11-11-2023

Press 1 to search again or 0 to exit : 1

WELCOME TO

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Enter the name of criminal : sdcszd

Enter the age of criminal : 12

Not found in any of the police stations

Press 1 to search again or 0 to exit : 0

WELCOME TO CRIMENET

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 - 7.Go Back
- Enter your choice : 5

Before entering

#	A	B	C	D	E	F
1	ID	Name	Age	Gender	Crime_Deta	Crime_Date
2	TIL1	Vivek Patel	40	M	Robbery	15-05-2023
3	TIL2	Neelam Sing	32	F	Burglary	22-06-2023
4	TIL3	Ravi Verma	35	M	Assault	17-04-2023
5	TIL4	Komal Khan	28	F	Fraud	08-07-2023
6	TIL5	Sanjay Pate	30	M	Narcotics	29-03-2023
7	TIL6	Divya Kapo	29	F	Vandalism	10-08-2023
8	TIL7	Mukesh Tiw	38	M	Forgery	05-05-2023
9	TIL8	Kavita Gupt	26	F	Theft	12-07-2023
10	TIL9	Pradeep Kur	33	M	Drug Traffic	18-09-2023
11	TIL10	Anita Joshi	31	F	Bribery	21-06-2023
12	TIL11	Vishal Meht	29	M	Credit Card I	30-04-2023
13	TIL12	Shweta Sing	28	F	Identity The	05-10-2023
14	TIL13	Alok Sharm	39	M	Money Lau	25-02-2023
15	TIL14	Sapna Rao	25	F	Bribery	11-11-2023
16	TIL15	Rajesh Shah	36	M	Embezzlem	28-09-2023
17	TIL16	Kirti Sharma	27	F	Drug Traffic	19-06-2023
18	TIL17	Varun Khan	37	M	Extortion	14-08-2023
19	TIL18	Nisha Gupta	30	F	Corporate E	23-07-2023
20	TIL19	Prakash Rec	34	M	Insider Trad	17-03-2023
21	TIL20	Ananya Cha	32	F	Tax Evasion	30-10-2023
22	TIL21	Siddharth Bl	28	M	Identity The	05-11-2023
23	TIL22	Indira Menc	27	F	Cyber Crime	01-12-2023
24	TIL23	Harish Singh	38	M	Bank Robbe	16-06-2023
25	TIL24	Maya Iyer	26	F	Money Cou	21-07-2023
26	TIL25	Rahul Meh	35	M	Kidnapping	19-08-2023
27	TIL26	Anjali Sham	30	F	Blackmail	14-09-2023
28	TIL27	Arvind Gupt	33	M	Public Corru	25-10-2023
29	TIL28	Kiran Patel	29	F	Smuggling	30-11-2023
30	TIL29	Manju Khur	31	F	Domestic Vi	10-12-2023
31	TIL30	Rajiv Verma	37	M	Intellectual	03-07-2023
32	TIL31	Prema Singl	26	F	Fraudulent	09-04-2023
33	TIL32	Vivek Agarv	34	M	Money Lau	18-10-2023
34	TIL33	Asha Nair	28	F	Burglary	05-08-2023
35	TIL34	Vikas Singh	36	M	Bank Fraud	27-11-2023
36	TIL35	Anushka Da	30	F	Identity The	25-12-2023
37	TIL36	Shivam Me	27	M	Shoplifting	08-06-2023
38	TIL37	Neha Sharm	33	F	Robbery	17-07-2023
39	TIL38	Aditya Kum	31	M	Assault	22-08-2023
40	TIL39	Shreya Pate	29	F	Drug Traffic	30-09-2023
41	TIL40	Rajesh Kum	40	M	Embezzlem	29-05-2023
42	TIL41	Akansha Sir	26	F	Fraud	13-04-2023
43	TIL42	Vivek Verm	35	M	Theft	08-10-2023
44	TIL43	Kritika Shah	27	F	Burglary	16-11-2023
45	TIL44	Rajat Mishr	30	M	Forgery	20-12-2023
46	TIL45	Ananya Das	32	F	Bribery	05-09-2023
47	TIL46	Arnab Gupt	28	M	Identity The	02-07-2023
48	TIL47	Sneha Redd	31	F	Money Lau	12-06-2023
49	TIL48	Kartik Khan	29	M	Narcotics	28-08-2023
50	TIL49	Khushi Shan	34	F	Shoplifting	25-05-2023
51	TIL50	Rahul Chouc	36	M	Extortion	22-11-2023
52						

After entering

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> The police stations are :  
5 : Udyambagh  
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Enter the Police Station name where a criminal is arrested : tilakwadi  
  
Enter the details  
Enter id :TIL51  
Criminal name : Sanika  
Criminal age : 21  
Gender : F  
Crime details : Robbery  
Crime date : 19-01-2024
```

Criminal inserted succesfully

#	A	B	C	D	E	F	G	H
1	ID	Name	Age	Gender	Crime_Details	Crime_Date		
2	TIL1	Vivek Patel	40	M	Robbery	15-05-2023		
3	TIL2	Neelam Singh	32	F	Burglary	22-06-2023		
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7	TIL6	Divya Kapoor	29	F	Vandalism	10-08-2023		
8	TIL7	Mukesh Tiwari	38	M	Forgery	05-05-2023		
9	TIL8	Kavita Gupta	26	F	Theft	12-07-2023		
10	TIL9	Pradeep Kumar	33	M	Drug Trafficking	18-09-2023		
11	TIL10	Anita Joshi	31	F	Bribery	21-06-2023		
12	TIL11	Vishal Mehta	29	M	Credit Card Fraud	30-04-2023		
13	TIL12	Shweta Singh	28	F	Identity Theft	05-10-2023		
14	TIL13	Alok Sharma	39	M	Money Laundering	25-02-2023		
15	TIL14	Sapna Rao	25	F	Bribery	11-11-2023		
16	TIL15	Rajesh Shah	36	M	Embezzlement	28-09-2023		
17	TIL16	Kirti Sharma	27	F	Drug Trafficking	19-06-2023		
18	TIL17	Varun Khanna	37	M	Extortion	14-08-2023		
19	TIL18	Nisha Gupta	30	F	Corporate Espionage	23-07-2023		
20	TIL19	Prakash Reddy	34	M	Insider Trading	17-03-2023		
21	TIL20	Ananya Chatterjee	32	F	Tax Evasion	30-10-2023		
22	TIL21	Siddharth Bhatnagar	28	M	Identity Theft	05-11-2023		
23	TIL22	Indira Menon	27	F	Cyber Crime	01-12-2023		
24	TIL23	Harish Singh	38	M	Bank Robbery	16-06-2023		
25	TIL24	Maya Iyer	26	F	Money Laundering	21-07-2023		
26	TIL25	Rahul Mehta	35	M	Kidnapping	19-08-2023		
27	TIL26	Anjali Sharma	30	F	Blackmail	14-09-2023		
28	TIL27	Arvind Gupta	33	M	Public Corruption	25-10-2023		
29	TIL28	Kiran Patel	29	F	Smuggling	30-11-2023		
30	TIL29	Manju Khanna	31	F	Domestic Violence	10-12-2023		
31	TIL30	Rajiv Verma	37	M	Intellectual Property Theft	03-07-2023		
32	TIL31	Prerna Singh	26	F	Fraudulent Transactions	09-04-2023		
33	TIL32	Vivek Agarwal	34	M	Money Laundering	18-10-2023		
34	TIL33	Asha Nair	28	F	Burglary	05-08-2023		
35	TIL34	Vikas Singh	36	M	Bank Fraud	27-11-2023		
36	TIL35	Anushka Das	30	F	Identity Theft	25-12-2023		
37	TIL36	Shivam Mehta	27	M	Shoplifting	08-06-2023		
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45	TIL44	Rajat Mishra	30	M	Forgery	20-12-2023		
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50	TIL49	Khushi Sharma	34	F	Shoplifting	25-05-2023		
51	TIL50	Rahul Choudhary	36	M	Extortion	22-11-2023		
52	TIL51	Sanika	21	F	Robbery	19-01-2024		

The police stations are :

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28 : APMC
33 : Kakati

Enter the Police Station name where a criminal is arrested : tilakwadi

Enter the details

Enter id :TIL51

Criminal name : Sanika

Criminal age : 21

Gender : F

Crime details : Robbery

Crime date : 19-01-2024

Criminal already exists in the tilakwadi Police station's file.

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 - 6.To Know the incharge of particular Police Station
 - 7.Go Back
- Enter your choice : 7

WELCOME TO

CRIMENET

Enter your course of action to use the CRIMENET based on the given below options

1.PUBLIC

2.POLICE

3.EXIT

3

PS E:\SEM 3\DSA\DSA problems\DSA project\output> █