NAME – ARPAN ARUN BANDIWADEKAR

DIVIVISION – D

BATCH – D1

ROLL NUMBER – 407

PRN - 202201090062

EDS MSE PRACTICAL EXAM

DATSET_7:

Teams	home_ wins	away_ wins	home_mat ches	away_ma tches	home win percentage	away win percentage
Rising Pune Supergiant	5	5	8	8	62.5	62.5
Mumbai Indians	58	51	101	86	57.42574257	59.30232558
Chennai Super Kings	51	49	89	75	57.30337079	65.33333333
Delhi Capitals	3	7	6	10	50	70
Sunrisers Hyderabad	30	28	63	45	47.61904762	62.22222222
Rajasthan Royals	29	46	67	80	43.28358209	57.5
Deccan Chargers	18	11	43	32	41.86046512	34.375
Kings XI Punjab	38	44	91	85	41.75824176	51.76470588
Royal Challengers Bangalore	35	49	85	95	41.17647059	51.57894737
Kolkata Knight Riders	34	58	83	95	40.96385542	61.05263158
Delhi Daredevils	25	42	72	89	34.72222222	47.19101124
Pune Warriors	6	6	20	26	30	23.07692308
Kochi Tuskers Kerala	2	4	7	7	28.57142857	57.14285714
Gujarat Lions	1	12	14	16	7.142857143	75

CODE:

```python
with open('data_sheet7.csv', 'r') as file:
    data = file.readlines()

data = [line.strip() for line in data]
data = data[1:]

#print(data)

team = []
```

```python
h_wins = []
a_wins = []
h_matches = []
a_matches = []
h_win_per = []
a_win_per = []

for line in data:
    words = line.split(',')
    team.append(words[0])
    h_wins.append(int(words[1]))
    a_wins.append(int(words[2]))
    h_matches.append(int(words[3]))
    a_matches.append(int(words[4]))
    h_win_per.append(float(words[5]))
    a_win_per.append(float(words[6]))
print(team,h_wins ,a_wins,h_matches,a_matches,h_win_per,a_win_per)

max_h_wins = max(h_wins)
max_h_wins = max(h_wins)
max_h_matches = max(h_matches)

print('team who won most matches in their home
city:',team[h_wins.index(max_h_wins)] )
print('team who had most matches in their home
city:',team[h_matches.index(max_h_matches)] )
print('team who won most matches in their home
city:',team[h_wins.index(max_h_wins)] )
```

OUTPUT:

PS C:\Users\Arpan\OneDrive\Desktop\ARPAN BANDIWADEKAR\MSE> &
"C:/Users/Arpan/OneDrive/Desktop/ARPAN BANDIWADEKAR/SEMESTERS/FY SEM2
SUBJECTS/ESSENTIALS OF DATA SCIENCE/python.exe" "c:/Users/Arpan/OneDrive/Desktop/ARPAN
BANDIWADEKAR/MSE/mse_analysis_of_data.py"

['Rising Pune Supergiant', 'Mumbai Indians', 'Chennai Super Kings', 'Delhi Capitals', 'Sunrisers
Hyderabad', 'Rajasthan Royals', 'Deccan Chargers', 'Kings XI Punjab', 'Royal Challengers Bangalore',
'Kolkata Knight Riders', 'Delhi Daredevils', 'Pune Warriors', 'Kochi Tuskers Kerala', 'Gujarat Lions'] [5,
58, 51, 3, 30, 29, 18, 38, 35, 34, 25, 6, 2, 1] [5, 51, 49, 7, 28, 46, 11, 44, 49, 58, 42, 6, 4, 12] [8, 101,
89, 6, 63, 67, 43, 91, 85, 83, 72, 20, 7, 14] [8, 86, 75, 10, 45, 80, 32, 85, 95, 95, 89, 26, 7, 16] [62.5,
57.42574257, 57.30337079, 50.0, 47.61904762, 43.28358209, 41.86046512, 41.75824176,
41.17647059, 40.96385542, 34.72222222, 30.0, 28.57142857, 7.142857143] [62.5, 59.30232558,
65.33333333, 70.0, 62.22222222, 57.5, 34.375, 51.76470588, 51.57894737, 61.05263158,
47.19101124, 23.07692308, 57.14285714, 75.0]

team who had most matches in their home city: Mumbai Indians

team who won most matches in their home city: Mumbai Indians