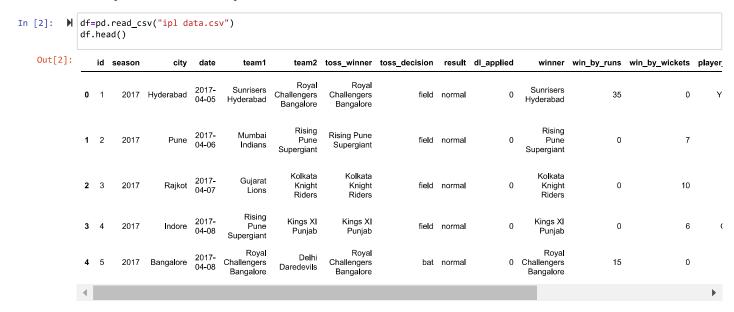
Import all libraries

```
In [60]: M
    import pandas as pd
    import numpy as np
    import matplotlib.pyplot as plt
    from matplotlib import style
    import seaborn as sns
```

Read ipl.csv file and print first 5 records

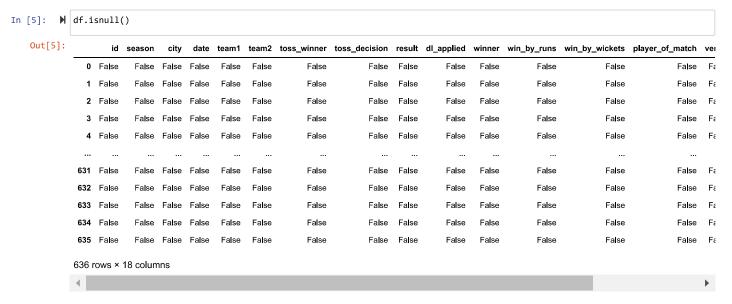


Check total number of columns, entries note down your findings

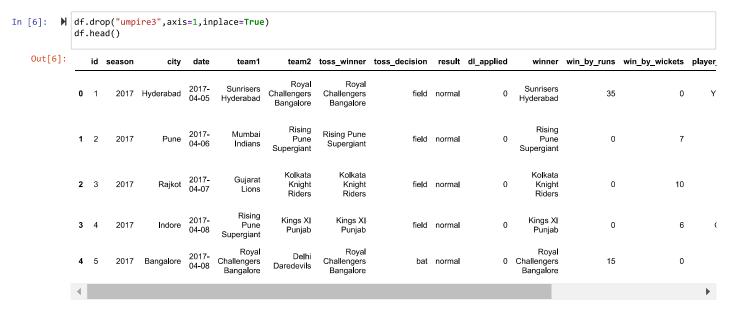
```
In [3]: | len(df.columns)
Out[3]: 18
In [4]: | df.size
Out[4]: 11448
```

Total colums- 18 and total entries are 11448

Find null values



Drop umpire3 column as it contains more than 75% of null values



Drop null values of city , winner ,player_of_match,umpire1,umpire2 column

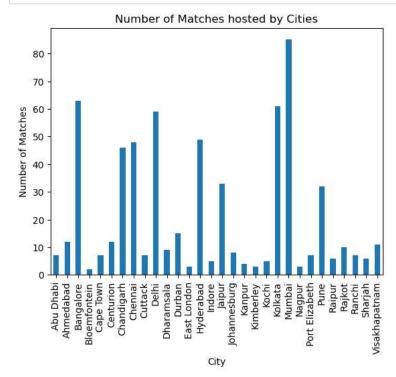
```
In [14]:
            M df.dropna(subset=["city", "winner", "player_of_match", "umpire1", "umpire2"], inplace=True)
                df.head()
    Out[14]:
                    id season
                                                                   team2 toss winner toss decision result dl applied
                                                                                                                              winner win_by_runs win_by_wickets player_c
                                       city
                                             date
                                                       team1
                                                                    Royal
                                                                                 Royal
                                                                                                                            Sunrisers
                                            2017-
                                                    Sunrisers
                 0
                          2017 Hyderabad
                                                               Challengers
                                                                            Challengers
                                                                                                  field normal
                                                                                                                                                35
                                                                                                                                                                  0
                                                                                                                                                                         Yuv
                                            04-05
                                                   Hyderabad
                                                                                                                          Hyderabad
                                                                Bangalore
                                                                             Bangalore
                                                                   Rising
                                                                                                                               Risina
                                            2017-
04-06
                                                      Mumbai
                                                                            Rising Pune
                    2
                          2017
                                                                    Pune
                                                                                                                                                                           SI
                                      Pune
                                                                                                  field normal
                                                                             Supergiant
                                                      Indians
                                                                Supergiant
                                                                                                                           Supergiant
                                                                  Kolkata
                                                                                Kolkata
                                                                                                                              Kolkata
                                            2017-
                                                      Gujarat
                    3
                          2017
                                    Rajkot
                                                                    Knight
                                                                                 Knight
                                                                                                  field normal
                                                                                                                                                                 10
                                            04-07
                                                        Lions
                                                                   Riders
                                                                                 Riders
                                                                                                                               Riders
                                            2017-
                                                                  Kings XI
                                                                               Kings XI
                                                                                                                             Kings XI
                                                                                                                                                 0
                                                                                                                                                                          GJ
                          2017
                                    Indore
                                                        Pune
                                                                                                  field normal
                                            04-08
                                                   Supergiant
                                                      Gujarat
                                                                 Sunrisers
                                                                              Sunrisers
                                                                                                                            Sunrisers
                                                                                                                                                 0
                          2017 Hyderabad
                                                                                                  field normal
                                                                                                                                                                         Ras
                                                        Lions
                                                                Hyderabad
                                                                             Hyderabad
                                                                                                                          Hyderabad
```

which city hosted most number of matches?

draw bar plot and write down your insights

Most matches were played in mumbai(85).

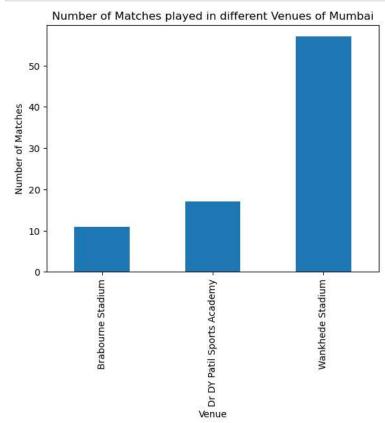
```
In [19]: N a.plot(kind='bar')
    plt.xlabel("City")
    plt.ylabel("Number of Matches")
    plt.title("Number of Matches hosted by Cities")
    plt.show()
```



According to the stats, Most matches were held in mumbai that are 85 matches. Above bar chart also represents the which city hosted most number of matches

Find all venue of mumbai city

now compare in which venue of mumbai most number of matches played (draw bar plot and write down insights)



By this we come to know that in the venue of mumbai most number of matches played were in Wankhede stadium.

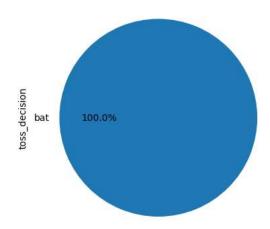
What is the preferred choice after winning a toss in mumbai

Graphical representation of above question

```
In [32]: 

g.plot(kind='pie',autopct='%1.1f%%')
plt.title("Preferred choice after winning a toss in Mumbai")
plt.show()
```

Preferred choice after winning a toss in Mumbai



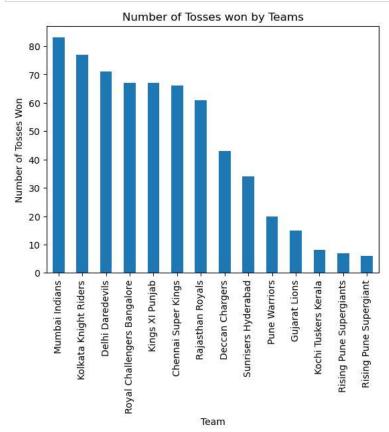
Which team won most number of toss

```
In [34]:
          h h= df["toss_winner"].value_counts()
             h
   Out[34]: Mumbai Indians
                                            83
             Kolkata Knight Riders
                                            77
             Delhi Daredevils
                                            71
             Royal Challengers Bangalore
                                            67
             Kings XI Punjab
                                            67
             Chennai Super Kings
             Rajasthan Royals
             Deccan Chargers
                                            43
             Sunrisers Hyderabad
                                            34
             Pune Warriors
                                            20
             Gujarat Lions
                                            15
             Kochi Tuskers Kerala
                                             8
             Rising Pune Supergiants
                                             7
             Rising Pune Supergiant
                                             6
             Name: toss_winner, dtype: int64
```

Mumbai Indians won most number of toss in the tournament.

Show graphical representation of above question

```
In [37]: N h.plot(kind='bar')
plt.xlabel("Team")
plt.ylabel("Number of Tosses Won")
plt.title("Number of Tosses won by Teams")
plt.show()
```



Find what mumbai indians preferred after winning a toss?

```
In [38]: N i= df[((df["team1"] == "Mumbai Indians") | (df["team2"] == "Mumbai Indians")) & (df["toss_decision"] != "field")]
j= i["toss_decision"].value_counts()
j
Out[38]: bat 69
Name: toss_decision, dtype: int64
```

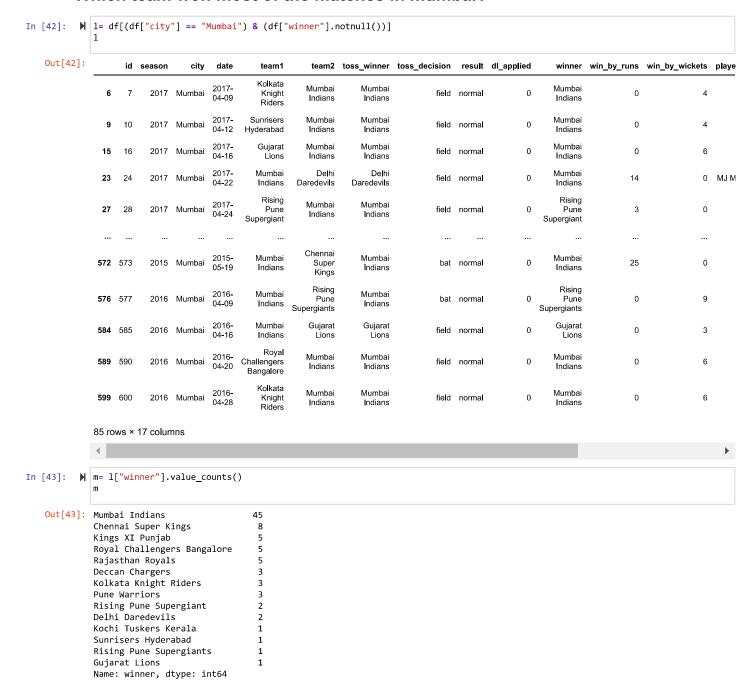
Head to head winning count of Mumbai Indians vs Chennai Super Kings

In [40]: M count= df[((df["team1"] == "Mumbai Indians") & (df["team2"] == "Chennai Super Kings")) |((df["team1"] == "Chennai Super Kings")) |

Οι	ιt	[40	1	:

	id	season	city	date	team1	team2	toss_winner	toss_decision	result	dl_applied	winner	win_by_runs	win_by_wickets	player_of_ma
66	67	2008	Chennai	2008- 04-23	Chennai Super Kings	Mumbai Indians	Mumbai Indians	field	normal	0	Chennai Super Kings	6	0	ML Hay
95	96	2008	Mumbai	2008- 05-14	Chennai Super Kings	Mumbai Indians	Mumbai Indians	field	normal	0	Mumbai Indians	0	9	ST Jayasu
117	118	2009	Cape Town	2009- 04-18	Mumbai Indians	Chennai Super Kings	Chennai Super Kings	field	normal	0	Mumbai Indians	19	0	SR Tendu
161	162	2009	Port Elizabeth	2009- 05-16	Mumbai Indians	Chennai Super Kings	Mumbai Indians	bat	normal	0	Chennai Super Kings	0	7	ML Hay
193	194	2010	Mumbai	2010- 03-25	Chennai Super Kings	Mumbai Indians	Mumbai Indians	field	normal	0	Mumbai Indians	0	5	SR Tendu
210	211	2010	Chennai	2010- 04-06	Chennai Super Kings	Mumbai Indians	Chennai Super Kings	bat	normal	0	Chennai Super Kings	24	0	SK Ra
233	234	2010	Mumbai	2010- 04-25	Chennai Super Kings	Mumbai Indians	Chennai Super Kings	bat	normal	0	Chennai Super Kings	22	0	SK Ra
256	257	2011	Mumbai	2011- 04-22	Mumbai Indians	Chennai Super Kings	Chennai Super Kings	field	normal	0	Mumbai Indians	8	0	Harbhajan Si
307	308	2012	Chennai	2012- 04-04	Chennai Super Kings	Mumbai Indians	Mumbai Indians	field	normal	0	Mumbai Indians	0	8	RE I
354	355	2012	Mumbai	2012- 05-06	Chennai Super Kings	Mumbai Indians	Mumbai Indians	field	normal	0	Mumbai Indians	0	2	DR Sr
378	379	2012	Bangalore	2012- 05-23	Chennai Super Kings	Mumbai Indians	Mumbai Indians	field	normal	0	Chennai Super Kings	38	0	MS Dr
385	386	2013	Chennai	2013- 04-06	Mumbai Indians	Chennai Super Kings	Mumbai Indians	bat	normal	0	Mumbai Indians	9	0	KA Pol
429	430	2013	Mumbai	2013- 05-05	Mumbai Indians	Chennai Super Kings	Mumbai Indians	bat	normal	0	Mumbai Indians	60	0	MG John
453	454	2013	Delhi	2013- 05-21	Chennai Super Kings	Mumbai Indians	Chennai Super Kings	bat	normal	0	Chennai Super Kings	48	0	MEK Hus
456	457	2013	Kolkata	2013- 05-26	Mumbai Indians	Chennai Super Kings	Mumbai Indians	bat	normal	0	Mumbai Indians	23	0	KA Pol
489	490	2014	Mumbai	2014- 05-10	Mumbai Indians	Chennai Super Kings	Chennai Super Kings	field	normal	0	Chennai Super Kings	0	4	DR Sr
514	515	2014	Mumbai	2014- 05-28	Mumbai Indians	Chennai Super Kings	Chennai Super Kings	field	normal	0	Chennai Super Kings	0	7	SK Ra
529	530	2015	Mumbai	2015- 04-17	Mumbai Indians	Chennai Super Kings	Mumbai Indians	bat	normal	0	Chennai Super Kings	0	6	A Ne
558	559	2015	Chennai	2015- 05-08	Chennai Super Kings	Mumbai Indians	Chennai Super Kings	bat	normal	0	Mumbai Indians	0	6	HH Pan
572	573	2015	Mumbai	2015- 05-19	Mumbai Indians	Chennai Super Kings	Mumbai Indians	bat	normal	0	Mumbai Indians	25	0	KA Pol
575	576	2015	Kolkata	2015- 05-24	Mumbai Indians	Chennai Super Kings	Chennai Super Kings	field	normal	0	Mumbai Indians	41	0	RG Sha
4														•

Which team won most of the matches in mumbai?



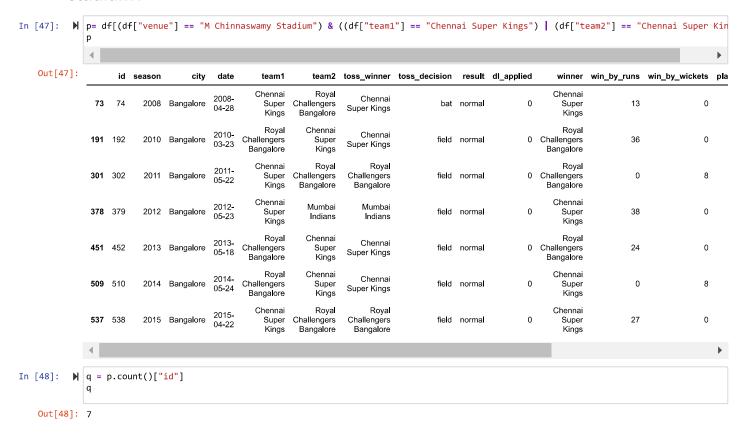
How many times each team won the toss and won the match in mumbai

```
▶ l= df[(df["city"] == "Mumbai") & (df["winner"].notnull())]
In [44]:
    Out[44]:
                                                                                                                      winner win_by_runs win_by_wickets playe
                      id season
                                    city
                                          date
                                                    team1
                                                               team2 toss winner toss decision result dl applied
                                                    Kolkata
                                         2017-
                                                              Mumbai
                                                                           Mumbai
                                                                                                                     Mumbai
                  6
                      7
                           2017 Mumbai
                                                                                           field normal
                                                                                                               0
                                                                                                                                       0
                                                    Knight
                                         04 - 09
                                                               Indians
                                                                           Indians
                                                                                                                      Indians
                                                    Riders
                                         2017-
                                                  Sunrisers
                                                              Mumbai
                                                                           Mumbai
                                                                                                                      Mumbai
                           2017 Mumbai
                      10
                                                                                           field normal
                                                                                                               0
                                                                                                                                       0
                                         04-12
                                                 Hvderabad
                                                               Indians
                                                                           Indians
                                                                                                                      Indians
                                         2017-
                                                    Guiarat
                                                              Mumbai
                                                                           Mumbai
                                                                                                                      Mumbai
                 15
                      16
                           2017 Mumbai
                                                                                           field normal
                                                                                                               0
                                                                                                                                       0
                                                                                                                                                       6
                                         2017-
                                                   Mumbai
                                                                Delhi
                                                                             Delhi
                                                                                                                      Mumbai
                23
                           2017 Mumbai
                                                                                           field normal
                                                                                                               0
                                                                                                                                       14
                                                                                                                                                          MJ M
                     24
                                         04-22
                                                    Indians
                                                            Daredevils
                                                                        Daredevils
                                                                                                                      Indians
                                                    Rising
                                                                                                                       Rising
                                         2017-
                                                              Mumbai
                                                                           Mumbai
                27
                     28
                           2017 Mumbai
                                                                                           field normal
                                                     Pune
                                                                                                                       Pune
                                         04-24
                                                               Indians
                                                                           Indians
                                                                                                                   Supergiant
                                                 Supergiant
                                                              Chennai
                                                                           Mumbai
                                                   Mumbai
                                                                                                               0
                                                                                                                                                       0
                572 573
                           2015 Mumbai
                                                                                                                                       25
                                                                Super
                                                                                            bat normal
                                         05-19
                                                    Indians
                                                                           Indians
                                                                                                                      Indians
                                                                Kings
                                                                Rising
                                                                                                                       Rising
                                         2016-
                                                   Mumbai
                                                                           Mumbai
                                                                                                               0
                576 577
                           2016 Mumbai
                                                                Pune
                                                                                            bat normal
                                                                                                                       Pune
                                                                                                                                       0
                                         04-09
                                                    Indians
                                                                           Indians
                                                           Supergiants
                                                                                                                  Supergiants
                                         2016-
                                                   Mumbai
                                                               Gujarat
                                                                           Gujarat
                                                                                                                      Gujarat
                    585
                           2016 Mumbai
                                                                                                               0
                                                                                                                                       n
                584
                                                                                           field normal
                                         04-16
                                                    Indians
                                                                Lions
                                                                                                                        Lions
                                                     Royal
                                                              Mumbai
                                                                           Mumbai
                                                                                                                      Mumbai
                589
                    590
                           2016 Mumbai
                                                Challengers
                                                                                           field normal
                                                                                                               0
                                         04-20
                                                               Indians
                                                                           Indians
                                                                                                                      Indians
                                                 Bangalore
                                                    Kolkata
                                         2016-
                                                              Mumbai
                                                                           Mumbai
                                                                                                                      Mumbai
                                                                                                               0
                                                                                                                                                       6
                599 600
                           2016 Mumbai
                                                    Knight
                                                                                           field normal
                                                                                                                                       n
                                         04-28
                                                    Riders
               85 rows × 17 columns
In [45]:
           ▶ | n = 1.groupby(["toss_winner", "winner"]).count()["id"]
    Out[45]: toss_winner
                                                winner
                                                Chennai Super Kings
               Chennai Super Kings
                                                Kings XI Punjab
                                                                                     1
                                                Mumbai Indians
                                                                                     1
               Deccan Chargers
                                                Deccan Chargers
                                                                                     3
                                                Kolkata Knight Riders
                                                                                     1
                                                Mumbai Indians
                                                Royal Challengers Bangalore
                                                                                     1
               Delhi Daredevils
                                                Delhi Daredevils
                                                Mumbai Indians
                                                                                     5
                                                Rajasthan Royals
               Gujarat Lions
                                                Gujarat Lions
                                                                                     1
               Kings XI Punjab
                                                Chennai Super Kings
                                                                                     1
                                                Mumbai Indians
                                                Pune Warriors
               Kochi Tuskers Kerala
                                                Kochi Tuskers Kerala
                                                                                     1
                                                Pune Warriors
                                                                                     1
               Kolkata Knight Riders
                                                Kolkata Knight Riders
                                                                                     1
                                                Mumbai Indians
               Mumbai Indians
                                                Chennai Super Kings
                                                Kings XI Punjab
                                                                                     4
                                                Kolkata Knight Riders
                                                                                     1
                                                Mumbai Indians
                                                                                    26
                                                Pune Warriors
                                                                                     1
                                                Rajasthan Royals
                                                                                     1
                                                Rising Pune Supergiant
                                                                                     2
                                                Rising Pune Supergiants
                                                                                     1
                                                Royal Challengers Bangalore
               Pune Warriors
                                                Chennai Super Kings
                                                                                     1
                                                Mumbai Indians
               Rajasthan Royals
                                                                                     3
                                                Mumbai Indians
                                                Rajasthan Royals
                                                                                     2
                                                Sunrisers Hyderabad
               Royal Challengers Bangalore
                                                Mumbai Indians
                                                                                     2
                                                Royal Challengers Bangalore
                                                                                     2
               Sunrisers Hyderabad
                                                Mumbai Indians
                                                                                     1
               Name: id, dtype: int64
```

Which venue hosted most number of matches

```
o = df["venue"].value_counts()
In [46]:
   Out[46]: M Chinnaswamy Stadium
                                                                      63
             Eden Gardens
             Feroz Shah Kotla
                                                                      59
                                                                      57
             Wankhede Stadium
             Rajiv Gandhi International Stadium, Uppal
                                                                      49
             MA Chidambaram Stadium, Chepauk
                                                                      48
             Punjab Cricket Association Stadium, Mohali
                                                                      35
             Sawai Mansingh Stadium
                                                                      33
             Dr DY Patil Sports Academy
                                                                      17
             Subrata Roy Sahara Stadium
                                                                      17
             Maharashtra Cricket Association Stadium
                                                                      15
             Kingsmead
                                                                      15
             Sardar Patel Stadium, Motera
                                                                      12
             SuperSport Park
                                                                      12
             Punjab Cricket Association IS Bindra Stadium, Mohali
             Dr. Y.S. Rajasekhara Reddy ACA-VDCA Cricket Stadium
                                                                      11
             Brabourne Stadium
                                                                      11
             Saurashtra Cricket Association Stadium
                                                                      10
             Himachal Pradesh Cricket Association Stadium
                                                                       9
             New Wanderers Stadium
             Newlands
             St George's Park
             Sheikh Zayed Stadium
             JSCA International Stadium Complex
             Barabati Stadium
             Shaheed Veer Narayan Singh International Stadium
             Shariah Cricket Stadium
             Holkar Cricket Stadium
             Nehru Stadium
             Green Park
             Vidarbha Cricket Association Stadium, Jamtha
             De Beers Diamond Oval
             Buffalo Park
             OUTsurance Oval
             Name: venue, dtype: int64
```

Find how many matches chennal super kings played at M Chinnaswamy stadium?



Who won most matches at M Chinnaswamy stadium?

```
In [49]:
            r= df[(df["venue"] == "M Chinnaswamy Stadium") & (df["winner"].notnull())]
    Out[49]:
                                                                    team2 toss winner toss decision result dl applied
                                                                                                                              winner win_by_runs win_by_wickets pla
                       id season
                                        citv
                                              date
                                                         team1
                                                         Royal
                                             2017-
                                                                   Mumbai
                                                                                Mumbai
                                                                                                                             Mumbai
                       12
                             2017 Bangalore
                                                    Challengers
                                                                                                  field normal
                                                                                                                       0
                                             04-14
                                                                    Indians
                                                                                 Indians
                                                                                                                              Indians
                                                      Bangalore
                                                         Rising
                                                                     Royal
                                                                                  Royal
                                                                                                                               Rising
                                                                Challengers
                                                                                                                                                                0
                             2017 Bangalore
                                                                             Challengers
                                                                                                                       0
                                                                                                                                               27
                  16
                       17
                                                         Pune
                                                                                                  field normal
                                                                                                                               Pune
                                             04-16
                                                                 Bangalore
                                                                                                                           Supergiant
                                                     Supergiant
                                                                              Bangalore
                                                         Royal
                                             2017-
                                                                    Guiarat
                                                                                 Guiarat
                                                                                                                              Guiarat
                                                                                                                                                                7
                 29
                      30
                             2017 Bangalore
                                                    Challengers
                                                                                                  field normal
                                                                                                                       0
                                                                                                                                                0
                                             04-27
                                                      Bangalore
                                                                     Royal
                                                                                  Royal
                                             2017-
                                                       Kings XI
                                                                                                                             Kings XI
                  41
                      42
                             2017 Bangalore
                                                                Challengers
                                                                             Challengers
                                                                                                  field
                                                                                                                       0
                                                                                                                                               19
                                                                                                                                                                0 Sa
                                             05-05
                                                        Punjab
                                                                                                                              Punjab
                                                                 Bangalore
                                                                              Bangalore
                                                                    Kolkata
                                                                                 Kolkata
                                                                                                                              Kolkata
                                                         Royal
                                             2017-
                      45
                             2017 Bangalore
                                                    Challengers
                                                                                                  field normal
                                                                     Knight
                                                                                  Knight
                                                                                                                               Knight
                                             05-07
                                                      Bangalore
                                                                     Riders
                                                                                  Riders
                                                                                                                              Riders
                                                         Royal
                                             2016-
                                                                   Mumbai
                                                                                Mumbai
                                                                                                                              Mumbai
                 616 617
                             2016 Bangalore
                                                    Challengers
                                                                                                                       0
                                                                                                                                                                6
                                                                                                  field normal
                                             05-11
                                                                    Indians
                                                                                 Indians
                                                                                                                              Indians
                                                         Royal
                                                                                                                               Royal
                                             2016-
                                                                    Guiarat
                                                                                 Gujarat
                                                    Challengers
                                                                                                                       0 Challengers
Bangalore
                                                                                                                                                                0
                 619
                     620
                             2016 Bangalore
                                                                                                  field normal
                                                                                                                                              144
                                             05-14
                                                      Bangalore
                                                         Royal
                                                                                                                               Royal
                                             2016-
                                                                   Kinas XI
                                                                                Kinas XI
                                                    Challengers
                 625 626
                             2016 Bangalore
                                                                                                  field normal
                                                                                                                       1 Challengers
                                                                                                                                               82
                                                                                                                                                                0
                                             05-18
                                                                    Punjab
                                                                                 Punjab
                                                      Bangalore
                                                                                                                           Bangalore
                                                                                  Roval
                                                                                                                               Roval
                                                                     Roval
                                             2016-
                                                        Gujarat
                 632
                     633
                                                                Challengers
                                                                             Challengers
                                                                                                                          Challengers
                             2016 Bangalore
                                             05-24
                                                         Lions
                                                                 Bangalore
                                                                              Bangalore
                                                                                                                           Bangalore
                                                                     Roval
                                             2016-
                                                                               Sunrisers
                                                                                                                            Sunrisers
                 635 636
                                                                                                                                                                0
                             2016 Bangalore
                                                                Challengers
                                                                                                  bat normal
                                                                                                                           Hyderabad
                                             05-29
                                                     Hyderabad
                                                                              Hyderabad
                63 rows × 17 columns
In [50]: N s = r["winner"].value_counts()
    Out[50]: Royal Challengers Bangalore
                                                     29
               Mumbai Indians
                                                      8
                Kolkata Knight Riders
                                                      6
               Kings XI Punjab
                                                      5
               Chennai Super Kings
                                                      4
                                                      3
               Rajasthan Royals
               Delhi Daredevils
                                                      3
                Sunrisers Hyderabad
               Rising Pune Supergiant
                                                      1
               Gujarat Lions
                                                      1
               Deccan Chargers
                                                      1
               Name: winner, dtype: int64
           Matches played in each year
In [55]: | t=df["season"].value_counts()
```

```
Out[55]: 2013
                  76
          2012
                  74
          2011
                  72
          2010
                   60
          2016
                  60
          2017
                  58
          2008
                  58
          2009
                  57
          2015
                   57
          2014
                  53
          Name: season, dtype: int64
```

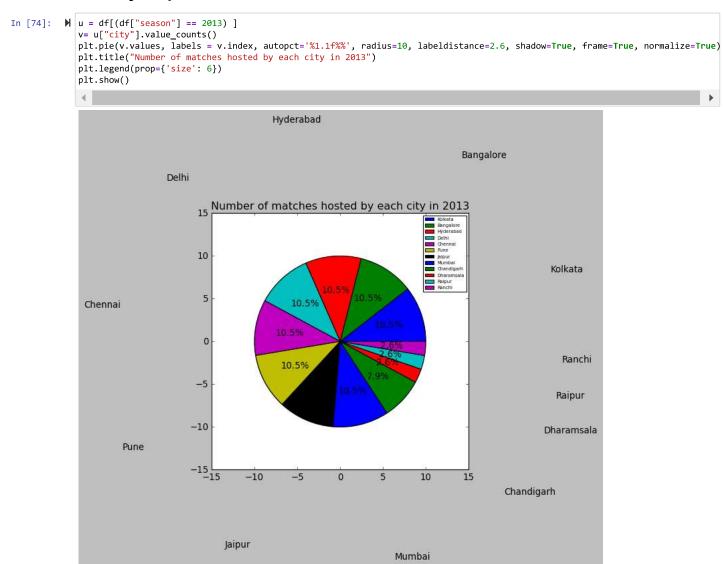
Which city hosted most number of matches in 2013

```
In [58]:

    u = df[(df["season"] == 2013)]

             v = u["city"].value_counts()
   Out[58]: Kolkata
             Bangalore
                            8
             Hyderabad
                            8
             Delhi
                            8
             Chennai
                            8
             Pune
             Jaipur
                            8
             Mumbai
             Chandigarh
             Dharamsala
             Raipur
             Ranchi
             Name: city, dtype: int64
```

lets analyse ipl season held in 2013



Here we will create yearwise groups

In [77]:

Х

w = df.groupby("season")
x = w.size()

```
Out[77]: season
                2008
                           58
                2009
                           57
                2010
                           60
                2011
                           72
                 2012
                 2013
                           76
                2014
                           53
                 2015
                           57
                2016
                           60
                2017
                          58
                dtype: int64
In [78]: \mathbf{M} y = w.get_group(2013)
    Out[78]:
                        id season
                                                                        team2 toss_winner toss_decision result dl_applied
                                           city
                                                 date
                                                             team1
                                                                                                                                     winner
                                                                                                                                             win_by_runs win_by_wickets play
                                                                       Kolkata
                                                                                     Kolkata
                                                                                                                                     Kolkata
                                                              Delhi
                               2013
                                        Kolkata
                                                                                                                                                                         6
                  381
                      382
                                                                                      Knight
Riders
                                                                                                                              0
                                                                                                                                                         0
                                                                                                       field normal
                                                                        Knight
                                                                                                                                      Knight
                                                 04-03
                                                         Daredevils
                                                                        Riders
                                                                                                                                      Riders
                                                              Royal
                                                                                                                                      Royal
                                                 2013-
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THANK YOU!

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