```
import numpy as np
import pandas as pd
```

```
11
   Team Matches Won Lost Tied N/R Points
                                                   NRR
                                                         For Against
1
  SRH
              14
                    9
                          5
                                0
                                     0
                                             18
                                                 0.284
                                                        2230
                                                                 2193
2
   CSK
              14
                    9
                          5
                                0
                                     0
                                             18
                                                 0.253 2488
                                                                 2433
3
   KKR
              14
                    8
                          6
                                0
                                     0
                                                -0.070 2363
                                                                 2425
                          7
                                            14 -0.250 2130
4
    RR
              14
                    7
                                0
                                     0
                                                                 2141
5
    MI
              14
                    6
                          8
                                0
                                     0
                                             12
                                                0.317 2380
                                                                 2282
                                            12
                                                0.129 2322
6
  RCB
              14
                    6
                          8
                                0
                                     0
                                                                 2383
7
  KXIP
              14
                    6
                          8
                                0
                                     0
                                             12 -0.502 2210
                                                                 2259
8
    DD
              14
                    5
                          9
                                0
                                     0
                                             10 -0.222 2297
                                                                 2304
```

	Team	Matches	Won	Lost	Tied	N/R	Points	NRR	For	Against	7
1	MI	14	10	4	0	0	20	0.784	2407	2242	
2	RPS	14	9	5	0	0	18	0.176	2180	2165	
3	SRH	14	8	5	0	1	17	0.469	2221	2118	
4	KKR	14	8	6	0	0	16	0.641	2329	2300	
5	KXIP	14	7	7	0	0	14	0.123	2207	2229	
6	DD	14	6	8	0	0	12	-0.512	2219	2255	
7	GL	14	4	10	0	0	8	-0.412	2406	2472	
8	RCB	14	3	10	0	1	7	-1.299	1845	2033	

Question-1: Suppose in 'ipl18', you want to filter out the teams that have an NRR greater than zero, and for which the 'For' score exceeds the 'Against' score, i.e. both the conditions should be satisfied. Which teams will be left after you perform the above filtration?

a) CSK, MI b) SRH,CSK, MI c) SRH,CSK, RCB d) SRK,CSK, MI,RCB

Answer-1: b)

```
res=ipl18[(ipl18['NRR']>0) & (ipl18['For']>ipl18['Against'])]
res['Team']
```

- 1 SRH
- 2 CSK
- 5 MI

Name: Team, dtype: object

Question-2: If all the stats are taken for both 'ipl17' and 'ipl18', which team with its total points greater than 25 will have the highest win percentage?

```
result=ipl17.set_index('Team').add(ipl18.set_index('Team'),fill_value=0).reset_index()
print(result)
```

	Team	Matches	Won	Lost	Tied	N/R	Points	NRR	For	Against
0	CSK	14.0	9.0	5.0	0.0	0.0	18.0	0.253	2488.0	2433.0
1	DD	28.0	11.0	17.0	0.0	0.0	22.0	-0.734	4516.0	4559.0
2	GL	14.0	4.0	10.0	0.0	0.0	8.0	-0.412	2406.0	2472.0
3	KKR	28.0	16.0	12.0	0.0	0.0	32.0	0.571	4692.0	4725.0
4	KXIP	28.0	13.0	15.0	0.0	0.0	26.0	-0.379	4417.0	4488.0
5	MI	28.0	16.0	12.0	0.0	0.0	32.0	1.101	4787.0	4524.0
6	RCB	28.0	9.0	18.0	0.0	1.0	19.0	-1.170	4167.0	4416.0
7	RPS	14.0	9.0	5.0	0.0	0.0	18.0	0.176	2180.0	2165.0
8	RR	14.0	7.0	7.0	0.0	0.0	14.0	-0.250	2130.0	2141.0
9	SRH	28.0	17.0	10.0	0.0	1.0	35.0	0.753	4451.0	4311.0

 $max_=0$

```
for team in result['Team']:
    d=result[result['Team']==team]
    if int(d['Points'])>25:
        win_percent=int( (d['Won']/d['Matches'])*100 )
        if win_percent>max_:
            max=win_percent
            max_team=team

print(max_team)
```

SRH

✓ 0s completed at 7:53 PM

×