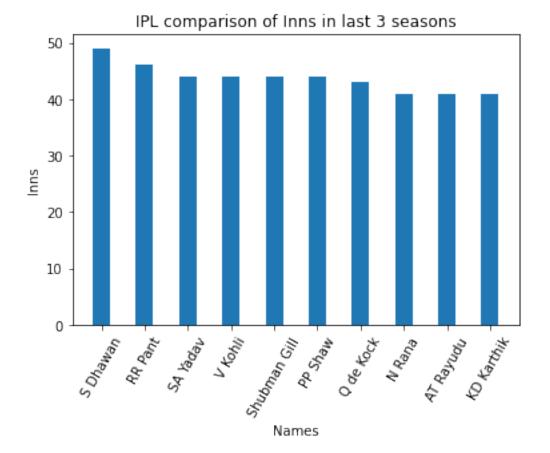
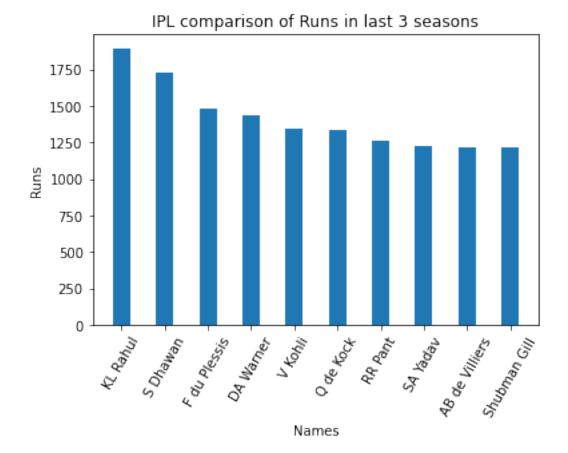
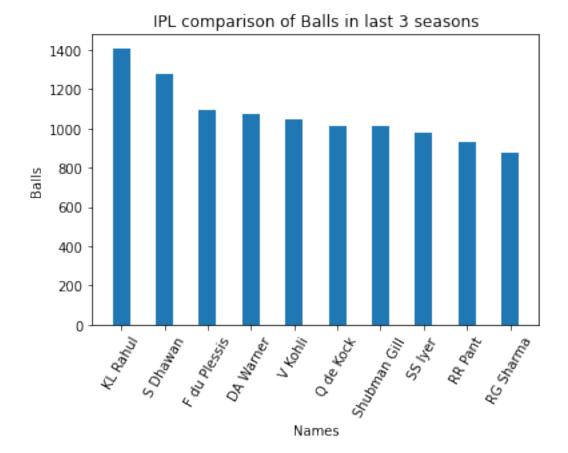
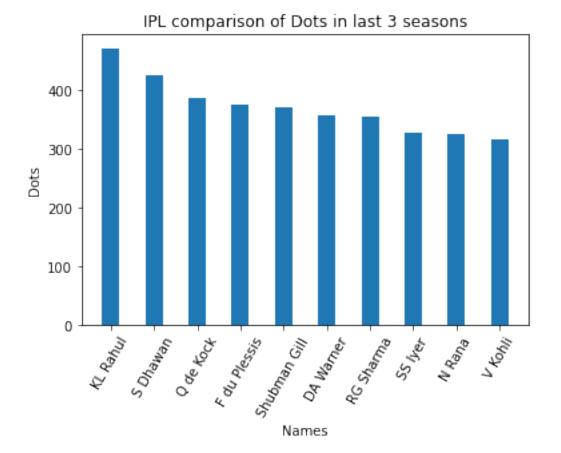
```
from ipl batting stats import player stats
import matplotlib.pyplot as plt
Main task is to generate list of highest achievers with respect to seasons
player stats['V Kohli']['seasons'][2016]['stats']['SR']
152.75
def last n seasons attr(n, attr, top=10, final = 2022):
     seasons = range(final-n, final)
    pl attr = {}
    for name in player stats:
         attr val = 0
         for season in seasons:
              if season not in player stats[name]['seasons']:
              attr val += player stats[name]['seasons'][season]['stats']
[attr]
         if attr in ('SR', 'Avg'):
              attr_val = round(attr_val/len(seasons), 2)
         pl attr[name] = attr val
     return sorted(list(pl attr.keys()), key = lambda t:pl attr[t],
reverse=True)[:top],pl attr
last n seasons attr(3, 'Runs')[0]
['KL Rahul',
 'S Dhawan',
 'F du Plessis',
 'DA Warner',
 'V Kohli',
 'Q de Kock',
 'RR Pant',
 'SA Yadav'
 'AB de Villiers',
 'Shubman Gill'l
# get every stat for the last 3 seasons
for stat in player_stats['V Kohli']['seasons'][2021]['stats']:
    print(stat,last n seasons attr(3, stat)[0])
Inns ['S Dhawan', 'RR Pant', 'SA Yadav', 'V Kohli', 'Shubman Gill',
'PP Shaw', 'Q de Kock', 'N Rana', 'AT Rayudu', 'KD Karthik']
Runs ['KL Rahul', 'S Dhawan', 'F du Plessis', 'DA Warner', 'V Kohli',
'Q de Kock', 'RR Pant', 'SA Yadav', 'AB de Villiers', 'Shubman Gill']
Balls ['KL Rahul', 'S Dhawan', 'F du Plessis', 'DA Warner', 'V Kohli',
'Q de Kock', 'Shubman Gill', 'SS Iyer', 'RR Pant', 'RG Sharma']
Dots ['KL Rahul', 'S Dhawan', 'Q de Kock', 'F du Plessis', 'Shubman
Gill', 'DA Warner', 'RG Sharma', 'SS Iyer', 'N Rana', 'V Kohli']
Out ['S Dhawan', 'PP Shaw', 'RG Sharma', 'SA Yadav', 'V Kohli', 'Q de
```

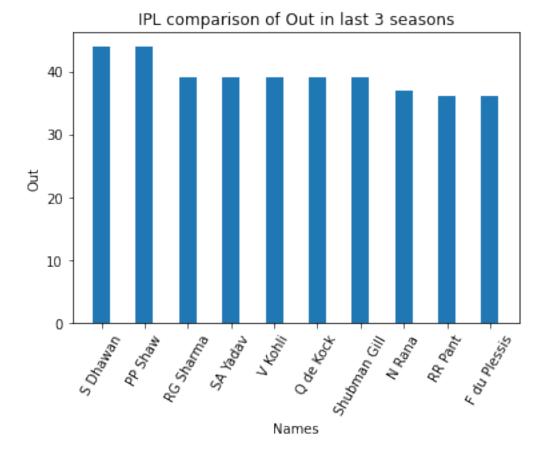
```
Kock', 'Shubman Gill', 'N Rana', 'RR Pant', 'F du Plessis']
4s ['S Dhawan', 'KL Rahul', 'SA Yadav', 'F du Plessis', 'PP Shaw', 'DA
Warner', 'Q de Kock', 'Shubman Gill', 'MA Agarwal', 'V Kohli']
6s ['KL Rahul', 'AD Russell', 'CH Gayle', 'AB de Villiers', 'KA
Pollard', 'HH Pandya', 'SV Samson', 'Q de Kock', 'F du Plessis', 'N
SR ['AD Russell', 'MK Lomror', 'DJ Bravo', 'SM Curran', 'KA Pollard',
'HH Pandya', 'AB de Villiers', 'JC Buttler', 'SV Samson', 'MA
Agarwal']
Avg ['KL Rahul', 'RA Jadeja', 'DA Warner', 'DJ Hooda', 'JM Bairstow',
'MS Dhoni', 'F du Plessis', 'AB de Villiers', 'MK Pandey', 'S Dhawan']
30s ['S Dhawan', 'RG Sharma', 'RR Pant', 'SS Iyer', 'F du Plessis', 'V
Kohli', 'AT Rayudu', 'SV Samson', 'SA Yadav', 'Shubman Gill']
50s ['KL Rahul', 'DA Warner', 'F du Plessis', 'S Dhawan', 'AB de
Villiers', 'Q de Kock', 'MK Pandey', 'Shubman Gill', 'N Rana', 'MA
Agarwal']
100s ['S Dhawan', 'SV Samson', 'KL Rahul', 'DA Warner', 'JC Buttler',
'AM Rahane', 'MA Agarwal', 'BA Stokes', 'V Kohli', 'JM Bairstow']
for stat in player stats['V Kohli']['seasons'][2021]['stats']:
    \# top num = 20
    # gt_attr = 'Runs'
    # gt val = 1000
    n = \overline{3}
    names, pl attr = last n seasons attr(n, stat)
    values = [pl attr[name] for name in names]
    plt.bar(range(len(names)), values, tick label=names, width=0.4)
    plt.xticks(rotation=60)
    plt.xlabel('Names')
    plt.ylabel(stat)
    plt.title(
        f'IPL comparison of {stat} in last {n} seasons')
    # plt.figure(figsize=(10, 5))
    plt.show()
```

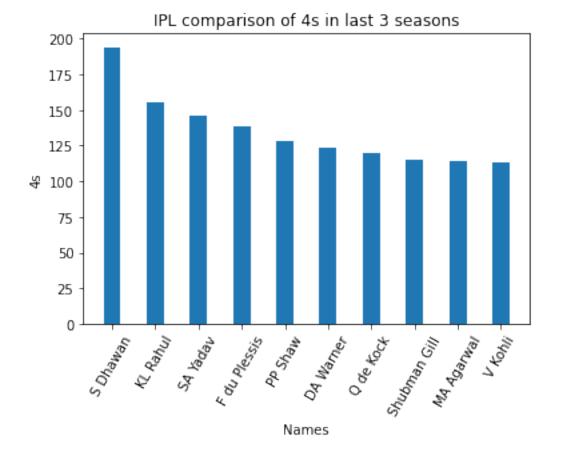


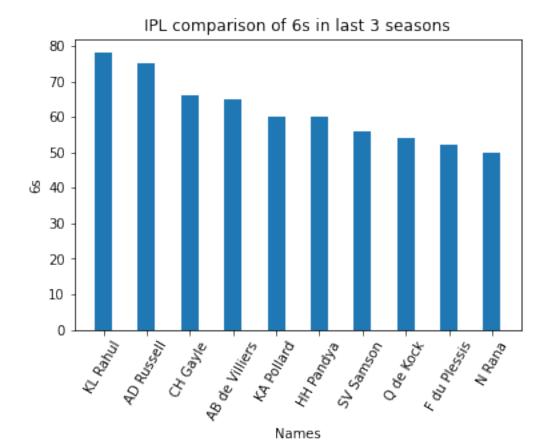


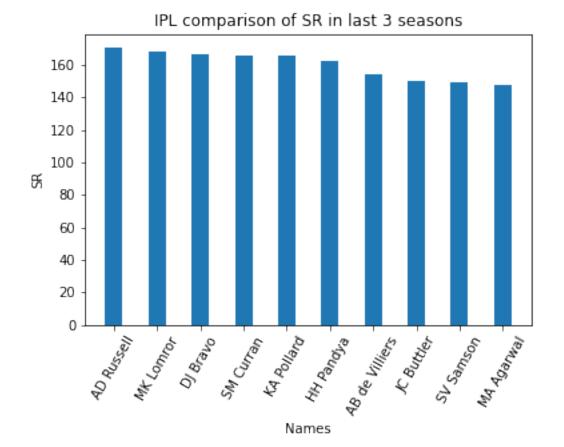


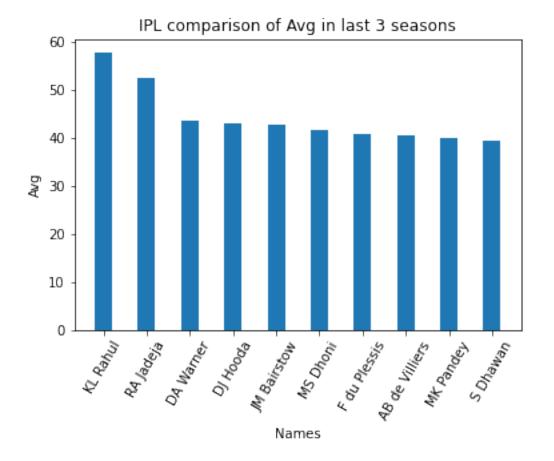


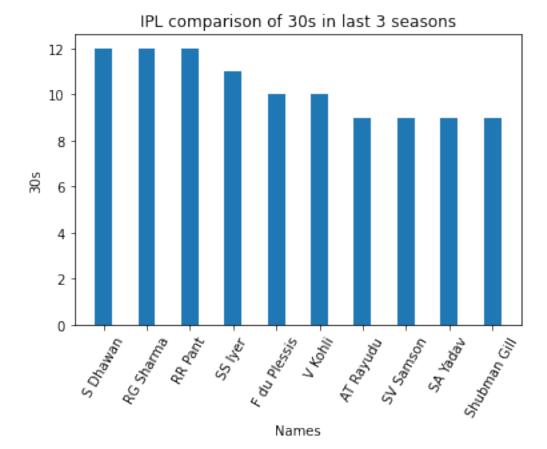




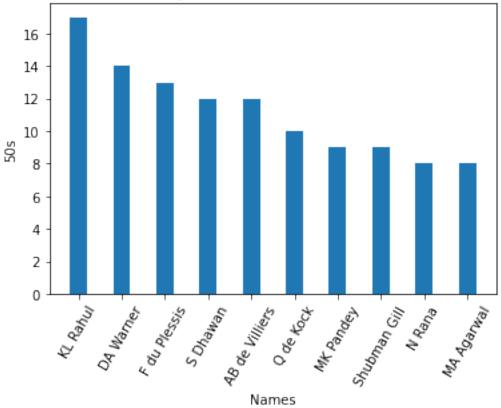




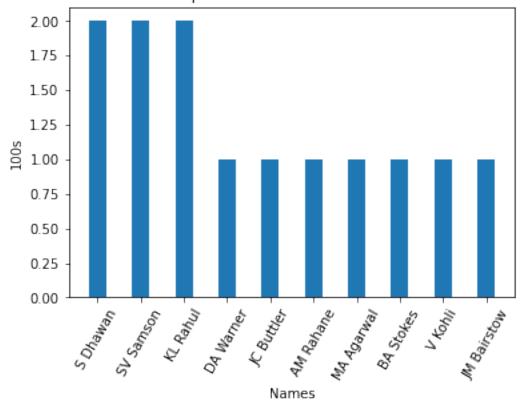




IPL comparison of 50s in last 3 seasons



IPL comparison of 100s in last 3 seasons



```
# get avg+sr
pl avg sr = \{\}
n = 3
sr = last n seasons attr(n, 'SR')[1]
avg = last n seasons attr(n, 'Avg')[1]
for name in sr:
    if name in avg:
        pl avg sr[name] = sr[name]+avg[name]
names = sorted(list(pl avg sr.keys()), key = lambda t: pl avg sr[t],
reverse=True)[:20]
vals = [pl avg sr[name] for name in names]
plt.bar(range(len(names)), vals, tick_label=names, width=0.4)
plt.xticks(rotation=60)
plt.xlabel('Names')
plt.ylabel('Avg+SR')
plt.title(
    f'IPL comparison of Avg+SR in last {n} seasons')
# plt.figure(figsize=(10, 5))
plt.show()
```

