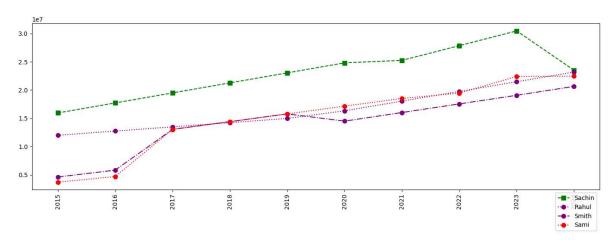
```
In [ ]: import numpy as np
 In [ ]: import numpy as np
          #Seasons
          Seasons = ["2015","2016","2017","2018","2019","2020","2021","2022","2023","2024"
          Sdict = {"2015":0,"2016":1,"2017":2,"2018":3,"2019":4,"2020":5,"2021":6,"2022":7
          #Players
          Players = ["Sachin", "Rahul", "Smith", "Sami", "Pollard", "Morris", "Samson", "Dhoni", "
          Pdict = {"Sachin":0,"Rahul":1,"Smith":2,"Sami":3,"Pollard":4,"Morris":5,"Samson"
          #Salaries
          Sachin_Salary = [15946875,17718750,19490625,21262500,23034375,24806250,25244493,
          Rahul Salary = [12000000,12744189,13488377,14232567,14976754,16324500,18038573,1
          Smith Salary = [4621800,5828090,13041250,14410581,15779912,14500000,16022500,175
          Sami Salary = [3713640,4694041,13041250,14410581,15779912,17149243,18518574,1945
          Pollard_Salary = [4493160,4806720,6061274,13758000,15202590,16647180,18091770,19
          Morris_Salary = [3348000,4235220,12455000,14410581,15779912,14500000,16022500,17
          Samson_Salary = [3144240,3380160,3615960,4574189,13520500,14940153,16359805,1777
          Dhoni_Salary = [0,0,4171200,4484040,4796880,6053663,15506632,16669630,17832627,1
          Kohli Salary = [0,0,0,4822800,5184480,5546160,6993708,16402500,17632688,18862875
          Sky_Salary = [3031920,3841443,13041250,14410581,15779912,14200000,15691000,17182
          #Matrix
          Salary = np.array([Sachin_Salary, Rahul_Salary, Smith_Salary, Sami_Salary, Polla
          #Games
          Sachin_G = [80,77,82,82,73,82,58,78,6,35]
          Rahul_G = [82,57,82,79,76,72,60,72,79,80]
          Smith_G = [79,78,75,81,76,79,62,76,77,69]
          Sami_G = [80,65,77,66,69,77,55,67,77,40]
          Pollard_G = [82,82,82,79,82,78,54,76,71,41]
          Morris_G = [70,69,67,77,70,77,57,74,79,44]
          Samson_G = [78,64,80,78,45,80,60,70,62,82]
          Dhoni G = [35,35,80,74,82,78,66,81,81,27]
          Kohli G = [40,40,40,81,78,81,39,0,10,51]
          Sky_G = [75,51,51,79,77,76,49,69,54,62]
          #Matrix
          Games = np.array([Sachin_G, Rahul_G, Smith_G, Sami_G, Pollard_G, Morris_G, Samsc
          #Points
          Sachin PTS = [2832,2430,2323,2201,1970,2078,1616,2133,83,782]
          Rahul_PTS = [1653,1426,1779,1688,1619,1312,1129,1170,1245,1154]
          Smith_PTS = [2478,2132,2250,2304,2258,2111,1683,2036,2089,1743]
          Sami PTS = [2122,1881,1978,1504,1943,1970,1245,1920,2112,966]
          Pollard PTS = [1292,1443,1695,1624,1503,1784,1113,1296,1297,646]
          Morris_PTS = [1572,1561,1496,1746,1678,1438,1025,1232,1281,928]
          Samson_PTS = [1258,1104,1684,1781,841,1268,1189,1186,1185,1564]
          Dhoni_PTS = [903,903,1624,1871,2472,2161,1850,2280,2593,686]
          Kohli_PTS = [597,597,597,1361,1619,2026,852,0,159,904]
          Sky PTS = [2040,1397,1254,2386,2045,1941,1082,1463,1028,1331]
          #Matrix
          Points = np.array([Sachin PTS, Rahul PTS, Smith PTS, Sami PTS, Pollard PTS, Morr
In [101...
         Salary[2]
```

```
Out[101... array([ 4621800, 5828090, 13041250, 14410581, 15779912, 14500000,
                 16022500, 17545000, 19067500, 20644400])
 In [ ]: Games
 In [ ]: Games[5]
 In [ ]: Games[0:5]
 In [ ]: Games[0,5]
 In [ ]: np.round(Salary//Games)
 In [ ]: Points
 In [ ]: Points[0]
 In [ ]: Points[0:5]
 In [ ]: Points[-6,-1]
 In [ ]: Pdict
 In [ ]: Pdict['Rahul']
 In [ ]: Pdict['Sachin']
 In [ ]: Games[1]
 In [ ]: Games[Pdict['Rahul']]
 In [ ]: Games
 In [ ]: Games[1]
 In [ ]: import warnings
          warnings.filterwarnings('ignore')
 In [ ]: import matplotlib.pyplot as plt
 In [ ]: Salary
 In [ ]: Salary[0]
 In [ ]: plt.plot(Salary[0])
          plt.show()
 In [ ]: plt.plot(Salary[0], ls = '--')
          plt.show()
  In [ ]: plt.plot(Salary[0], color='green', ls = '--')
          plt.show()
```

```
In [ ]: plt.plot(Salary[0], color = 'black')
        plt.show()
In [ ]: plt.plot(Salary[0], c = 'k')
        plt.show()
In [ ]: plt.plot(Salary[0], c='r')
        plt.show()
In [ ]: plt.plot(Salary[0], c='m')
        plt.show()
In [ ]: plt.plot(Salary[0], c = 'g', ls='dotted')
        plt.show()
In [ ]: %matplotlib inline
        plt.rcParams['figure.figsize']=7,8
In [ ]: plt.plot(Salary[0],c='b',ls='--',marker= 's', ms = 5)
In [ ]: plt.show()
In [ ]: | %matplotlib inline
        plt.rcParams['figure.figsize']=17,5
In [ ]: plt.plot(Salary[0], c='b', ls='--')
In [ ]:
In [ ]: plt.plot(Salary[0], c = 'Blue', ls= '--', marker = 'o')
        plt.show()
In [ ]: plt.plot(Salary[0], c = 'Blue', ls= '--', marker = 'D')
        plt.show()
In [ ]: plt.plot(Salary[0], c = 'Blue', ls= '--', marker = '^')
        plt.show()
In [ ]: plt.plot(Salary[0], c = 'Blue', ls= '--', marker = '4')
        plt.show()
In [ ]:
In [ ]: plt.plot(Salary[0], c = 'Blue', ls= '--', marker = 'o')
        plt.show()
In [ ]: plt.plot(Salary[0], c = 'Green', ls= '--', marker = 's', ms = 5)
        plt.show()
In [ ]: list(range(0,10))
In [ ]: Sdict
```

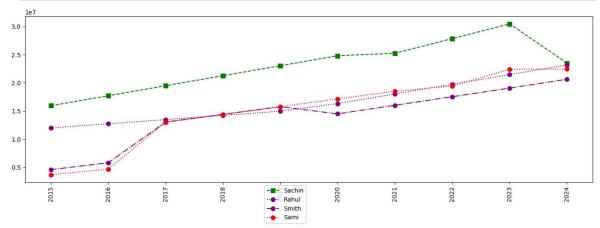
```
In [ ]: Pdict
  In [ ]: plt.plot(Salary[0], c = 'blue', marker='s', ms = 7)
          plt.xticks(list(range(0,10)), Seasons)
          plt.show()
  In [ ]: plt.plot(Salary[0], c = 'blue', marker='s', ms = 7,label=Players[0])
          plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
          plt.show()
  In [ ]: plt.plot(Salary[1], c = 'Purple', ls = ':', marker = 'o', ms=10, label = Players
          plt.show()
In [115...
          plt.plot(Salary[0], c = 'Green', ls='--', marker='s', ms = 7,label=Players[0])
          plt.plot(Salary[1], c = 'Purple', ls = ':', marker='o', ms = 7,label=Players[1])
           #plt.plot(Salary[2], c = 'Blue', ld='-.', marker = '^', ms = 8, label = Players[
           #plt.plot(Salary[2], c = 'Purple', ls = ':', marker='o', ms = 7,label=Players[1]
          plt.plot(Salary[2], c = 'Purple', ls = '-.', marker='o', ms = 7,label=Players[2]
           plt.legend()
          plt.xticks(list(range(0,10)), Seasons, rotation='horizontal')
          plt.show()
        2.0
         1.5
                                              2019
                                                                                        2024
             2015
In [117...
          plt.plot(Salary[0], c = 'Green', ls='--', marker='s', ms = 7,label=Players[0])
          plt.plot(Salary[1], c = 'Purple', ls = ':', marker='o', ms = 7,label=Players[1])
          #plt.plot(Salary[2], c = 'Blue', ld='-.', marker = '^', ms = 8, label = Players[
          #plt.plot(Salary[2], c = 'Purple', ls = ':', marker='o', ms = 7, label=Players[1]
          plt.plot(Salary[2], c = 'Purple', ls = '-.', marker='o', ms = 7,label=Players[2]
          plt.plot(Salary[3], c = 'Red', ls = ':', marker='o', ms = 7,label=Players[3])
          #plt.legend()
          plt.xticks(list(range(0,10)), Seasons, rotation='horizontal')
          plt.show()
        2.5
         2.0
         1.5
         1.0
                                                               2021
             2015
                              2017
                                              2019
                                                       2020
                                                                                2023
                     2016
```

```
plt.plot(Salary[0], c = 'Green', ls='--', marker='s', ms = 7,label=Players[0])
In [123...
          plt.plot(Salary[1], c = 'Purple', ls = ':', marker='o', ms = 7,label=Players[1])
          plt.plot(Salary[2], c = 'Purple', ls = '-.', marker='o', ms = 7,label=Players[2]
          plt.plot(Salary[3], c = 'Red', ls = ':', marker='o', ms = 7,label=Players[3])
          plt.legend()
          plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
          plt.show()
              Sachin
         1.5
         1.0
         0.5
                                                                                 2023
                                                                                         2024
                                                                2021
In [125...
          plt.plot(Salary[0], c = 'Green', ls='--', marker='s', ms = 7,label=Players[0])
          plt.plot(Salary[1], c = 'Purple', ls = ':', marker='o', ms = 7,label=Players[1])
          plt.plot(Salary[2], c = 'Purple', ls = '-.', marker='o', ms = 7,label=Players[2]
          plt.plot(Salary[3], c = 'Red', ls = ':', marker='o', ms = 7,label=Players[3])
          plt.legend(loc = 'upper left', bbox_to_anchor = (0,0))
          plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
          plt.show()
        2.5
         2.0
         1.0
                                                                                         2024
              Rahul
              Smith
          plt.plot(Salary[0], c = 'Green', ls='--', marker='s', ms = 7,label=Players[0])
In [148...
          plt.plot(Salary[1], c = 'Purple', ls = ':', marker='o', ms = 7,label=Players[1])
          plt.plot(Salary[2], c = 'Purple', ls = '-.', marker='o', ms = 7,label=Players[2]
           plt.plot(Salary[3], c = 'Red', ls = ':', marker='o', ms = 7,label=Players[3])
          plt.legend(loc = 'upper right', bbox_to_anchor = (1,0))
          plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
          plt.show()
```



```
In [150... plt.plot(Salary[0], c = 'Green', ls='--', marker='s', ms = 7,label=Players[0])
    plt.plot(Salary[1], c = 'Purple', ls = ':', marker='o', ms = 7,label=Players[1])
    plt.plot(Salary[2], c = 'Purple', ls = '--', marker='o', ms = 7,label=Players[2]
    plt.plot(Salary[3], c = 'Red', ls = ':', marker='o', ms = 7,label=Players[3])

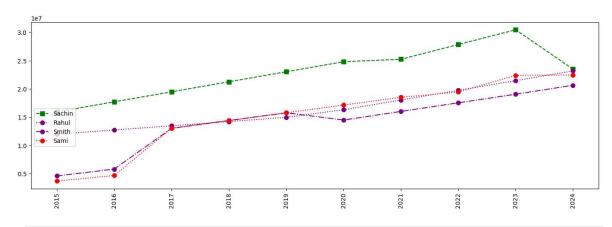
    plt.legend(loc = 'upper right', bbox_to_anchor = (0.5,0))
    plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
    plt.show()
```



```
In [146... plt.plot(Salary[0], c = 'Green', ls='--', marker='s', ms = 7,label=Players[0])
plt.plot(Salary[1], c = 'Purple', ls = ':', marker='o', ms = 7,label=Players[1])

plt.plot(Salary[2], c = 'Purple', ls = '--', marker='o', ms = 7,label=Players[2]
plt.plot(Salary[3], c = 'Red', ls = ':', marker='o', ms = 7,label=Players[3])

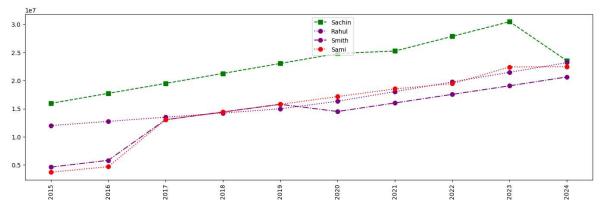
plt.legend(loc = 'upper left', bbox_to_anchor = (0,0.5))
plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
plt.show()
```



```
In [144... plt.plot(Salary[0], c = 'Green', ls='--', marker='s', ms = 7,label=Players[0])
plt.plot(Salary[1], c = 'Purple', ls = ':', marker='o', ms = 7,label=Players[1])

plt.plot(Salary[2], c = 'Purple', ls = '--', marker='o', ms = 7,label=Players[2]
plt.plot(Salary[3], c = 'Red', ls = ':', marker='o', ms = 7,label=Players[3])

plt.legend(loc = 'upper left', bbox_to_anchor = (0.5,1) )
plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
plt.show()
```

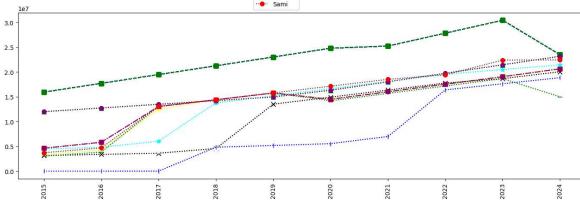


```
In [171... plt.plot(Salary[0], c = 'Green', ls='--', marker='s', ms = 7,label=Players[0])
    plt.plot(Salary[1], c = 'Purple', ls = ':', marker='o', ms = 7,label=Players[1])

plt.plot(Salary[2], c = 'Purple', ls = '--', marker='o', ms = 7,label=Players[2]
    plt.plot(Salary[3], c = 'Red', ls = ':', marker='o', ms = 7,label=Players[3])

plt.legend(loc = 'lower right', bbox_to_anchor = (0.5,1) )
    plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
    plt.show()
```

```
Sachin
    Sachin
-
    Sachin
--- Sachin
    Sachin
--- Sachin
    Sachin
-■- Sachin
    Sachin
    Rahul
    Smith
    Sachir
    Rahul
    Smith
    Sami
    Sachin
    Smith
    Sachin
    Rahul
    Smith
    Sami
    Pollard
    Morris
    Dhoni
·· ·· Kohli
    Sachin
    Rahul
    Smith
    Pollard
    Morris
    Dhoni
----- Kohli
--- Sachin
    Smith
```



```
In [184...
          plt.plot(Salary[0], c = 'blue', ls=':', marker='o', ms = 7,label=Players[0])
          plt.plot(Salary[1], c = 'green', ls=':', marker='^', ms = 7,label=Players[1])
          plt.plot(Salary[2], c = 'red', ls=':', marker='s', ms = 7,label=Players[2])
          plt.plot(Salary[3], c = 'cyan', ls=':', marker='*', ms = 7,label=Players[3])
          plt.plot(Salary[4], c = 'cyan', ls=':', marker='*', ms = 7,label=Players[4])
          #plt.plot(Salary[4], c = 'magneta', ls=':', marker='h', ms = 7,label=Players[4])
          plt.plot(Salary[5], c = 'yellow', ls=':', marker='+', ms = 7,label=Players[5])
          plt.plot(Salary[6], c = 'black', ls=':', marker='x', ms = 7,label=Players[6])
          plt.plot(Salary[7], c = 'white', ls=':', marker='D', ms = 7,label=Players[7])
          plt.plot(Salary[8], c = 'blue', ls=':', marker='|', ms = 7,label=Players[8])
          plt.plot(Salary[9], c = 'Green', ls=':', marker='_', ms = 7,label=Players[9])
          plt.legend(loc = 'lower right', bbox_to_anchor=(0.5,1))
          plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
          # plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
          plt.show()
```

