

```
In [2]: #Import numpy
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,"2023":8,"2024":9}

#Players
Players = ["Sachin", "Rahul", "Smith", "Sami", "Pollard", "Morris", "Samson", "Dhoni", "Kohli", "Sky"]
Pdict = {"Sachin":0, "Rahul":1, "Smith":2, "Sami":3, "Pollard":4, "Morris":5, "Samson":6, "Dhoni":7, "Kohli":8, "Sky":9}

#Salaries
Sachin_Salary = [15946875, 17718750, 19490625, 21262500, 23034375, 24806250, 25244493, 27810000, 30500000, 34000000, 37500000, 41000000, 44500000, 48000000, 51500000, 55000000, 58500000, 62000000, 65500000, 69000000, 72500000, 76000000, 79500000, 83000000, 86500000, 90000000, 93500000, 97000000, 100500000, 104000000, 107500000, 111000000, 114500000, 118000000, 121500000, 125000000, 128500000, 132000000, 135500000, 139000000, 142500000, 146000000, 149500000, 153000000, 156500000, 160000000, 163500000, 167000000, 170500000, 174000000, 177500000, 181000000, 184500000, 188000000, 191500000, 195000000, 198500000, 202000000, 205500000, 209000000, 212500000, 216000000, 219500000, 223000000, 226500000, 230000000, 233500000, 237000000, 240500000, 244000000, 247500000, 251000000, 254500000, 258000000, 261500000, 265000000, 268500000, 272000000, 275500000, 279000000, 282500000, 286000000, 289500000, 293000000, 296500000, 300000000]
Rahul_Salary = [12000000, 12744189, 13488377, 14232567, 14976754, 16324500, 18038573, 19750000, 21500000, 23250000, 25000000, 26750000, 28500000, 30250000, 32000000, 33750000, 35500000, 37250000, 39000000, 40750000, 42500000, 44250000, 46000000, 47750000, 49500000, 51250000, 53000000, 54750000, 56500000, 58250000, 60000000, 61750000, 63500000, 65250000, 67000000, 68750000, 70500000, 72250000, 74000000, 75750000, 77500000, 79250000, 81000000, 82750000, 84500000, 86250000, 88000000, 89750000, 91500000, 93250000, 95000000, 96750000, 98500000, 100250000, 101950000, 103650000, 105350000, 107050000, 108750000, 110450000, 112150000, 113850000, 115550000, 117250000, 118950000, 120650000, 122350000, 124050000, 125750000, 127450000, 129150000, 130850000, 132550000, 134250000, 135950000, 137650000, 139350000, 141050000, 142750000, 144450000, 146150000, 147850000, 149550000, 151250000, 152950000, 154650000, 156350000, 158050000, 159750000, 161450000, 163150000, 164850000, 166550000, 168250000, 170050000, 171750000, 173450000, 175150000, 176850000, 178550000, 180250000, 181950000, 183650000, 185350000, 187050000, 188750000, 190450000, 192150000, 193850000, 195550000, 197250000, 198950000, 200650000, 202350000, 204050000, 205750000, 207450000, 209150000, 210850000, 212550000, 214250000, 215950000, 217650000, 219350000, 221050000, 222750000, 224450000, 226150000, 227850000, 229550000, 231250000, 232950000, 234650000, 236350000, 238050000, 239750000, 241450000, 243150000, 244850000, 246550000, 248250000, 250050000, 251750000, 253450000, 255150000, 256850000, 258550000, 260250000, 261950000, 263650000, 265350000, 267050000, 268750000, 270450000, 272150000, 273850000, 275550000, 277250000, 278950000, 280650000, 282350000, 284050000, 285750000, 287450000, 289150000, 290850000, 292550000, 294250000, 295950000, 297650000, 299350000, 301050000, 302750000, 304450000, 306150000, 307850000, 309550000, 311250000, 312950000, 314650000, 316350000, 318050000, 319750000, 321450000, 323150000, 324850000, 326550000, 328250000, 330050000, 331750000, 333450000, 335150000, 336850000, 338550000, 340250000, 341950000, 343650000, 345350000, 347050000, 348750000, 350450000, 352150000, 353850000, 355550000, 357250000, 358950000, 360650000, 362350000, 364050000, 365750000, 367450000, 369150000, 370850000, 372550000, 374250000, 375950000, 377650000, 379350000, 381050000, 382750000, 384450000, 386150000, 387850000, 389550000, 391250000, 392950000, 394650000, 396350000, 398050000, 399750000, 401450000, 403150000, 404850000, 406550000, 408250000, 410050000, 411750000, 413450000, 415150000, 416850000, 418550000, 420250000, 421950000, 423650000, 425350000, 427050000, 428750000, 430450000, 432150000, 433850000, 435550000, 437250000, 438950000, 440650000, 442350000, 444050000, 445750000, 447450000, 449150000, 450850000, 452550000, 454250000, 455950000, 457650000, 459350000, 461050000, 462750000, 464450000, 466150000, 467850000, 469550000, 471250000, 472950000, 474650000, 476350000, 478050000, 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634650000, 636350000, 638050000, 639750000, 641450000, 643150000, 644850000, 646550000, 648250000, 650050000, 651750000, 653450000, 655150000, 656850000, 658550000, 660250000, 661950000, 663650000, 665350000, 667050000, 668750000, 670450000, 672150000, 673850000, 675550000, 677250000, 678950000, 680650000, 682350000, 684050000, 685750000, 687450000, 689150000, 690850000, 692550000, 694250000, 695950000, 697650000, 699350000, 701050000, 702750000, 704450000, 706150000, 707850000, 709550000, 711250000, 712950000, 714650000, 716350000, 718050000, 719750000, 721450000, 723150000, 724850000, 726550000, 728250000, 729950000, 731650000, 733350000, 735050000, 736750000, 738450000, 740150000, 741850000, 743550000, 745250000, 746950000, 748650000, 750350000, 752050000, 753750000, 755450000, 757150000, 758850000, 760550000, 762250000, 763950000, 765650000, 767350000, 769050000, 770750000, 772450000, 774150000, 775850000, 777550000, 779250000, 780950000, 782650000, 784350000, 786050000, 787750000, 789450000, 791150000, 792850000, 794550000, 796250000, 797950000, 799650000, 801350000, 803050000, 804750000, 806450000, 808150000, 809850000, 811550000, 813250000, 814950000, 816650000, 818350000, 819050000, 820750000, 822450000, 824150000, 825850000, 827550000, 829250000, 830950000, 832650000, 834350000, 836050000, 837750000, 839450000, 841150000, 842850000, 844550000, 846250000, 847950000, 849650000, 851350000, 853050000, 854750000, 856450000, 858150000, 859850000, 861550000, 863250000, 864950000, 866650000, 868350000, 869050000, 870750000, 872450000, 874150000, 875850000, 877550000, 879250000, 880950000, 882650000, 884350000, 886050000, 887750000, 889450000, 891150000, 892850000, 894550000, 896250000, 897950000, 899650000, 901350000, 903050000, 904750000, 906450000, 908150000, 909850000, 911550000, 913250000, 914950000, 916650000, 918350000, 919050000, 920750000, 922450000, 924150000, 925850000, 927550000, 929250000, 930950000, 932650000, 934350000, 936050000, 937750000, 939450000, 941150000, 942850000, 944550000, 946250000, 947950000, 949650000, 951350000, 953050000, 954750000, 956450000, 958150000, 959850000, 961550000, 963250000, 964950000, 966650000, 968350000, 969050000, 970750000, 972450000, 974150000, 975850000, 977550000, 979250000, 980950000, 982650000, 984350000, 986050000, 987750000, 989450000, 991150000, 992850000, 994550000, 996250000, 997950000, 999650000, 1001350000, 1003050000, 1004750000, 1006450000, 1008150000, 1009850000, 1011550000, 1013250000, 1014950000, 1016650000, 1018350000, 1019050000, 1020750000, 1022450000, 1024150000, 1025850000, 1027550000, 1029250000, 1030950000, 1032650000, 1034350000, 1036050000, 1037750000, 1039450000, 1041150000, 1042850000, 1044550000, 1046250000, 1047950000, 1049650000, 1051350000, 1053050000, 1054750000, 1056450000, 1058150000, 1059850000, 1061550000, 1063250000, 1064950000, 1066650000, 1068350000, 1069050000, 1070750000, 1072450000, 1074150000, 1075850000, 1077550000, 1079250000, 1080950000, 1082650000, 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1378000000, 1378750000, 1379500000, 1380250000, 1381000000, 1381750000, 1382500000, 1383250000, 1384000000, 1384750000
```

```
Out[3]: array([[15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
   25244493, 27849149, 30453805, 23500000],
   [12000000, 12744189, 13488377, 14232567, 14976754, 16324500,
   18038573, 19752645, 21466718, 23180790],
   [ 4621800, 5828090, 13041250, 14410581, 15779912, 14500000,
   16022500, 17545000, 19067500, 20644400],
   [ 3713640, 4694041, 13041250, 14410581, 15779912, 17149243,
   18518574, 19450000, 22407474, 22458000],
   [ 4493160, 4806720, 6061274, 13758000, 15202590, 16647180,
   18091770, 19536360, 20513178, 21436271],
   [ 3348000, 4235220, 12455000, 14410581, 15779912, 14500000,
   16022500, 17545000, 19067500, 20644400],
   [ 3144240, 3380160, 3615960, 4574189, 13520500, 14940153,
   16359805, 17779458, 18668431, 20068563],
   [ 0, 0, 4171200, 4484040, 4796880, 6053663,
   15506632, 16669630, 17832627, 18995624],
   [ 0, 0, 0, 4822800, 5184480, 5546160,
   6993708, 16402500, 17632688, 18862875],
   [ 3031920, 3841443, 13041250, 14410581, 15779912, 14200000,
   15691000, 17182000, 18673000, 15000000]])
```

In [5]: Games

```
Out[5]: array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35],
   [82, 57, 82, 79, 76, 72, 60, 72, 79, 80],
   [79, 78, 75, 81, 76, 79, 62, 76, 77, 69],
   [80, 65, 77, 66, 69, 77, 55, 67, 77, 40],
   [82, 82, 82, 79, 82, 78, 54, 76, 71, 41],
   [70, 69, 67, 77, 70, 77, 57, 74, 79, 44],
   [78, 64, 80, 78, 45, 80, 60, 70, 62, 82],
   [35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
   [40, 40, 40, 81, 78, 81, 39, 0, 10, 51],
   [75, 51, 51, 79, 77, 76, 49, 69, 54, 62]]))
```

In [6]: Points

```
Out[6]: array([[2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133, 83, 782],
   [1653, 1426, 1779, 1688, 1619, 1312, 1129, 1170, 1245, 1154],
   [2478, 2132, 2250, 2304, 2258, 2111, 1683, 2036, 2089, 1743],
   [2122, 1881, 1978, 1504, 1943, 1970, 1245, 1920, 2112, 966],
   [1292, 1443, 1695, 1624, 1503, 1784, 1113, 1296, 1297, 646],
   [1572, 1561, 1496, 1746, 1678, 1438, 1025, 1232, 1281, 928],
   [1258, 1104, 1684, 1781, 841, 1268, 1189, 1186, 1185, 1564],
   [ 903, 903, 1624, 1871, 2472, 2161, 1850, 2280, 2593, 686],
   [ 597, 597, 597, 1361, 1619, 2026, 852, 0, 159, 904],
   [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]]))
```

In [8]: Sdict

```
Out[8]: {'2015': 0,
          '2016': 1,
          '2017': 2,
          '2018': 3,
          '2019': 4,
          '2020': 5,
          '2021': 6,
          '2022': 7,
          '2023': 8,
          '2024': 9}
```

```
In [9]: Pdict
```

```
Out[9]: {'Sachin': 0,
          'Rahul': 1,
          'Smith': 2,
          'Sami': 3,
          'Pollard': 4,
          'Morris': 5,
          'Samson': 6,
          'Dhoni': 7,
          'Kohli': 8,
          'Sky': 9}
```

```
In [61]: Games[Pdict['Dhoni']]
```

```
Out[61]: array([35, 35, 80, 74, 82, 78, 66, 81, 81, 27])
```

```
In [64]: Games[Sdict['2022']]
```

```
Out[64]: array([35, 35, 80, 74, 82, 78, 66, 81, 81, 27])
```

```
In [65]: Salary[Pdict['Sky']][Sdict['2019']] #sky salary in 2019
```

```
Out[65]: np.int64(15779912)
```

```
In [11]: Games[5]
```

```
Out[11]: array([70, 69, 67, 77, 70, 77, 57, 74, 79, 44])
```

```
In [12]: Games[5,3]
```

```
Out[12]: np.int64(77)
```

```
In [13]: Salary[0]
```

```
Out[13]: array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
                25244493, 27849149, 30453805, 23500000])
```

```
In [14]: Salary[0]/Games[0]
```

```
Out[14]: array([ 199335.9375 , 230113.63636364, 237690.54878049,
   259298.7804878 , 315539.38356164, 302515.24390244,
   435249.87931034, 357040.37179487, 5075634.16666667,
   671428.57142857])
```

```
In [15]: np.round(Salary[0]/Games[0])
```

```
Out[15]: array([ 199336., 230114., 237691., 259299., 315539., 302515.,
   435250., 357040., 5075634., 671429.])
```

lets visualize the data

```
In [17]: import warnings
warnings.filterwarnings('ignore')
#to ignore unwanted error we need to write the code as ignore all
```

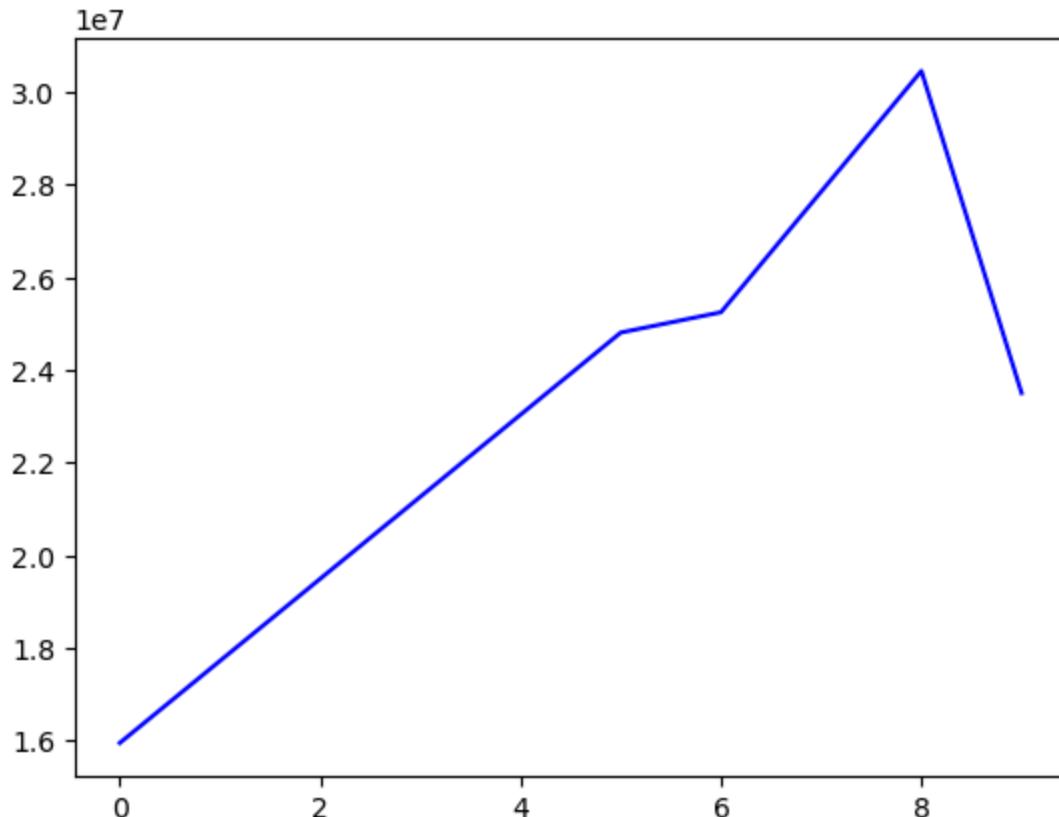
```
In [18]: import matplotlib.pyplot as plt
```

```
In [19]: Salary[0]
```

```
Out[19]: array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
   25244493, 27849149, 30453805, 23500000])
```

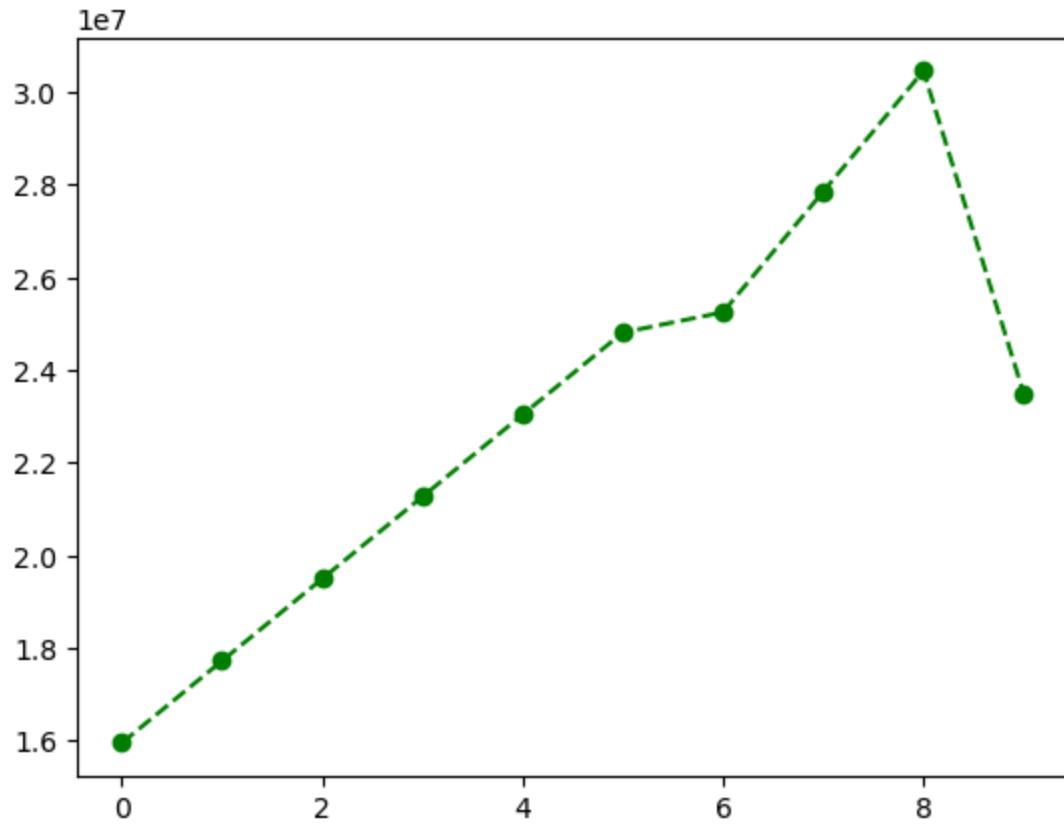
```
In [22]: plt.plot(Salary[0],color='blue')
```

```
Out[22]: [
```



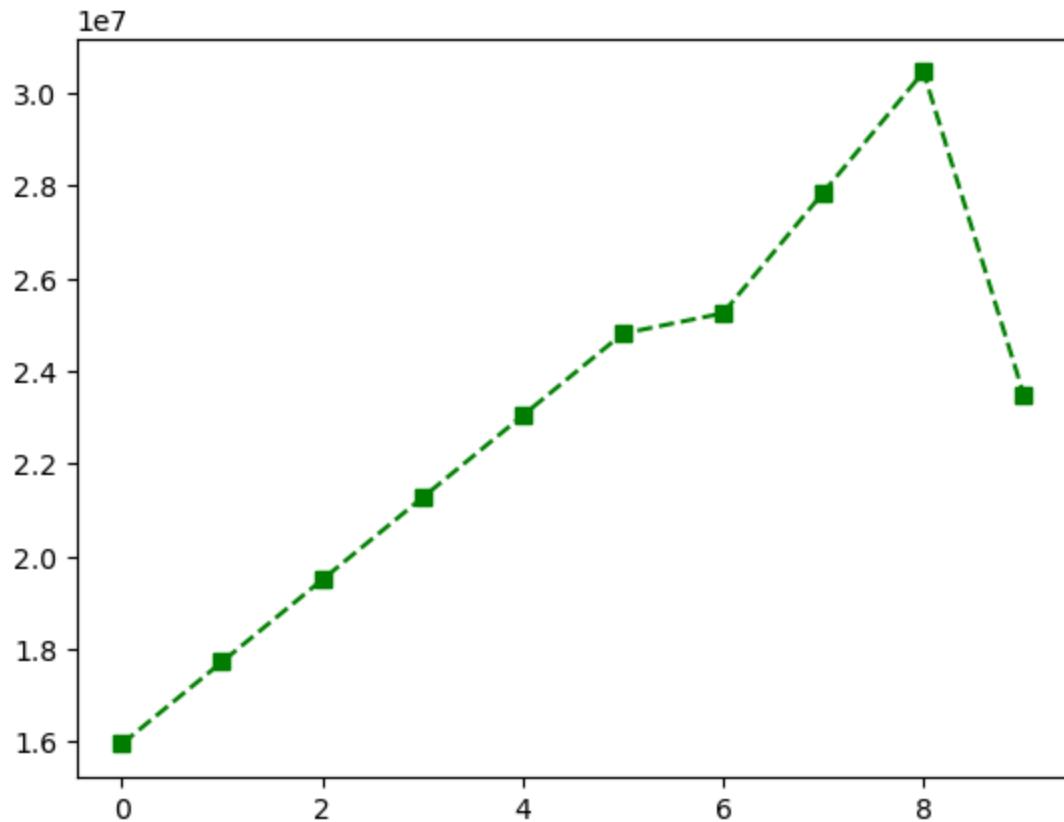
```
In [33]: plt.plot(Salary[0],c='g',ls='--',marker='o')
```

```
Out[33]: [
```



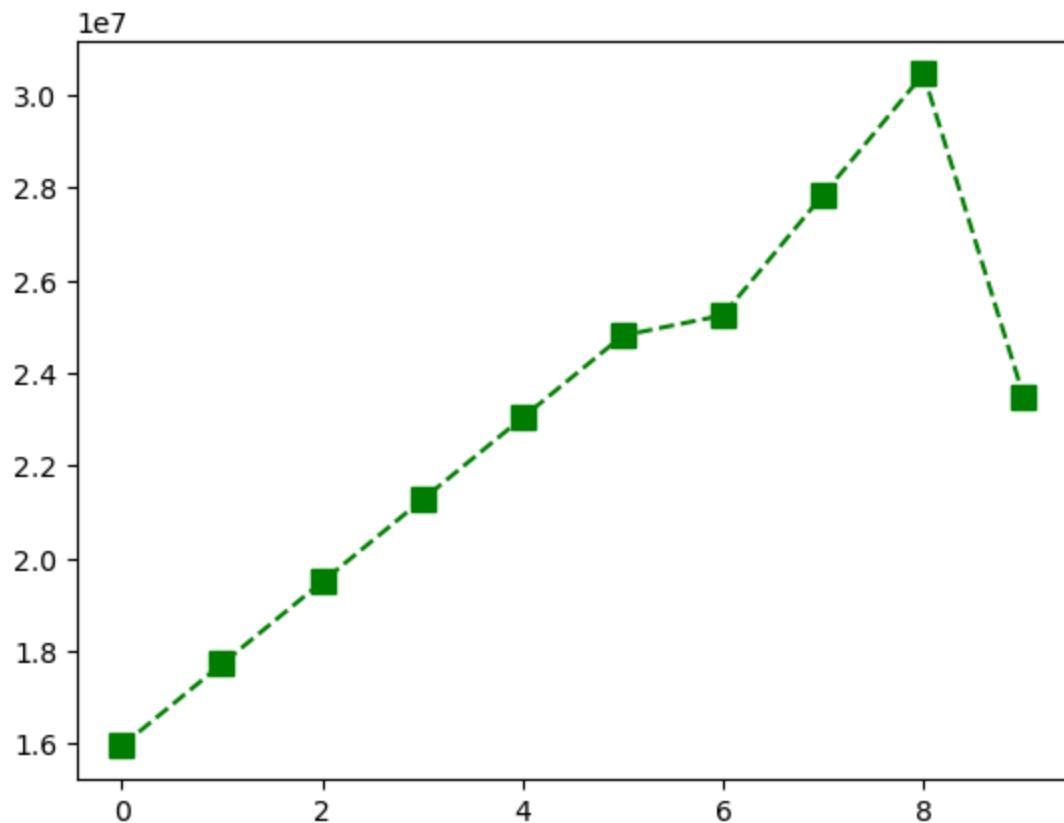
```
In [34]: plt.plot(Salary[0],c='g',ls='--',marker='s')
```

```
Out[34]: [
```



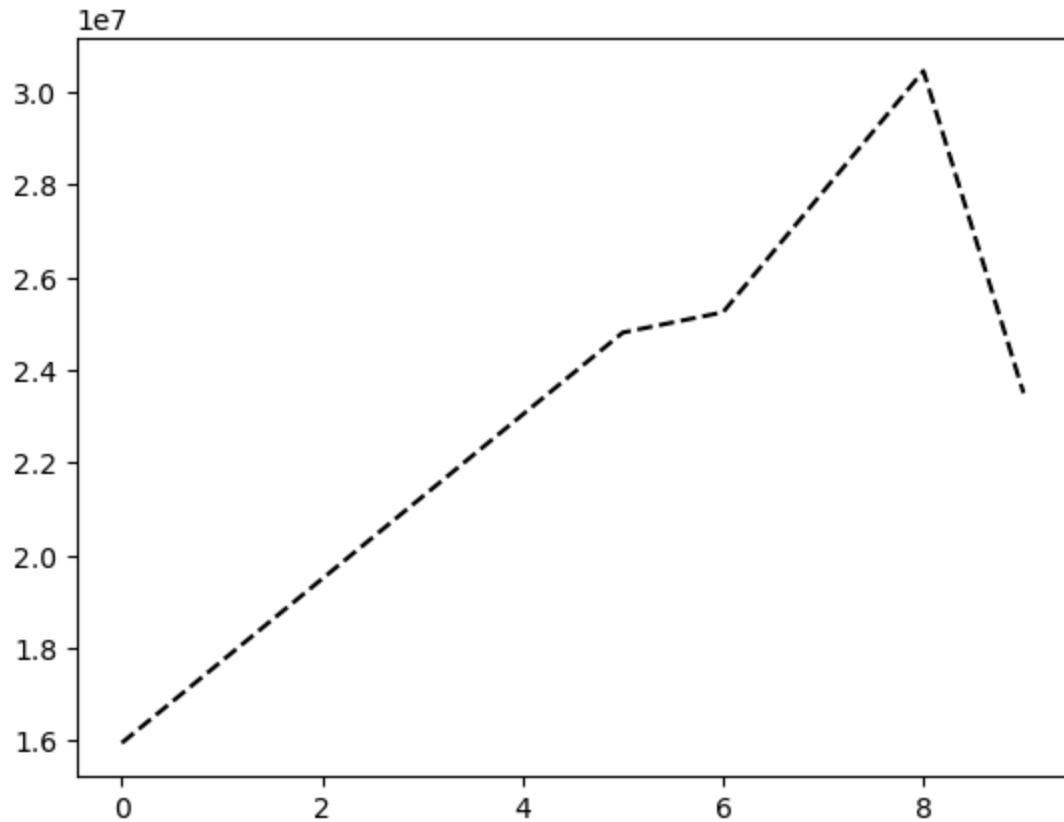
```
In [35]: plt.plot(Salary[0], c='g', ls='--', marker='s', ms=8)
```

```
Out[35]: [<matplotlib.lines.Line2D at 0x28581263890>]
```

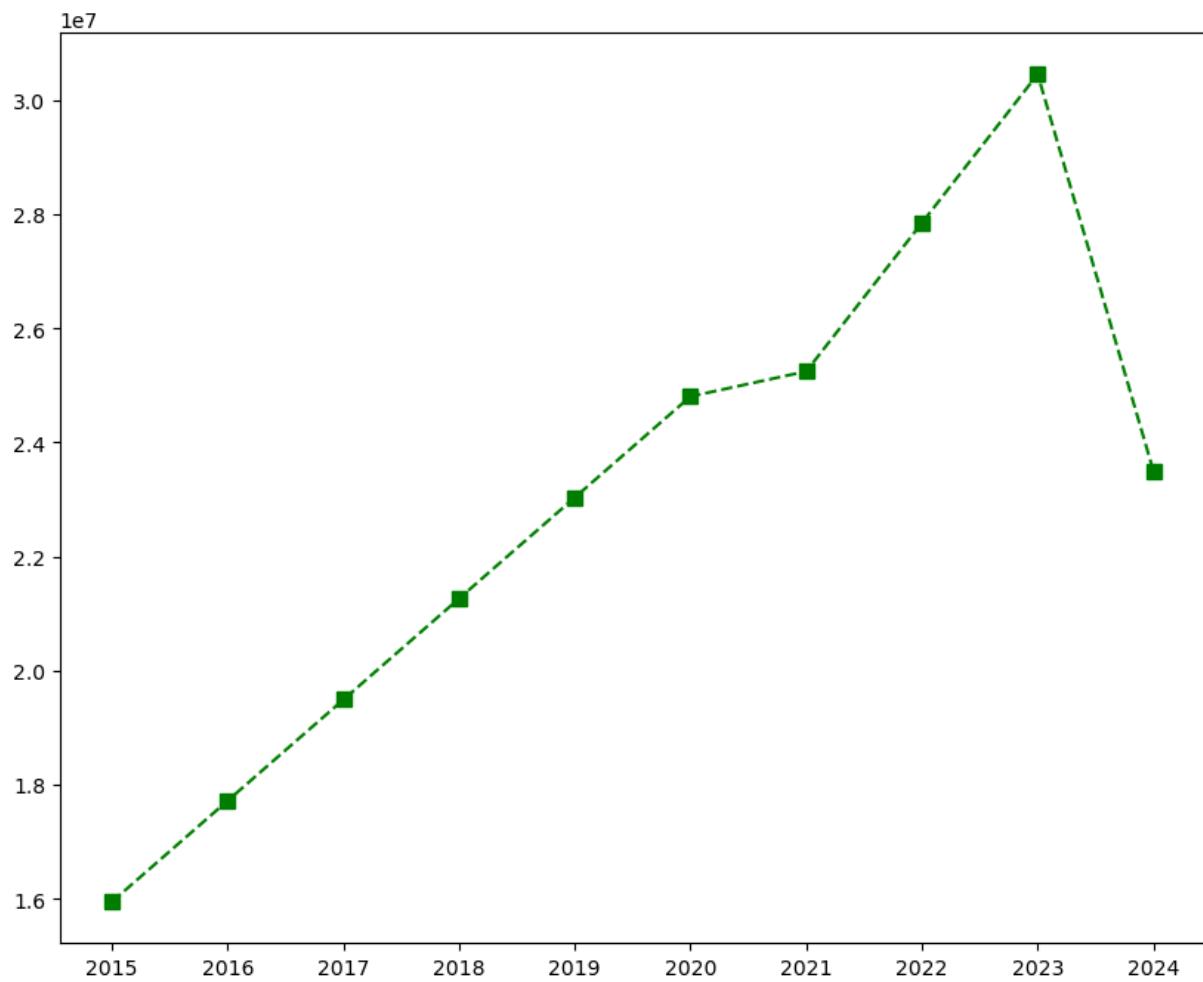


```
In [36]: plt.plot(Salary[0], ls = '--', color = 'black')
```

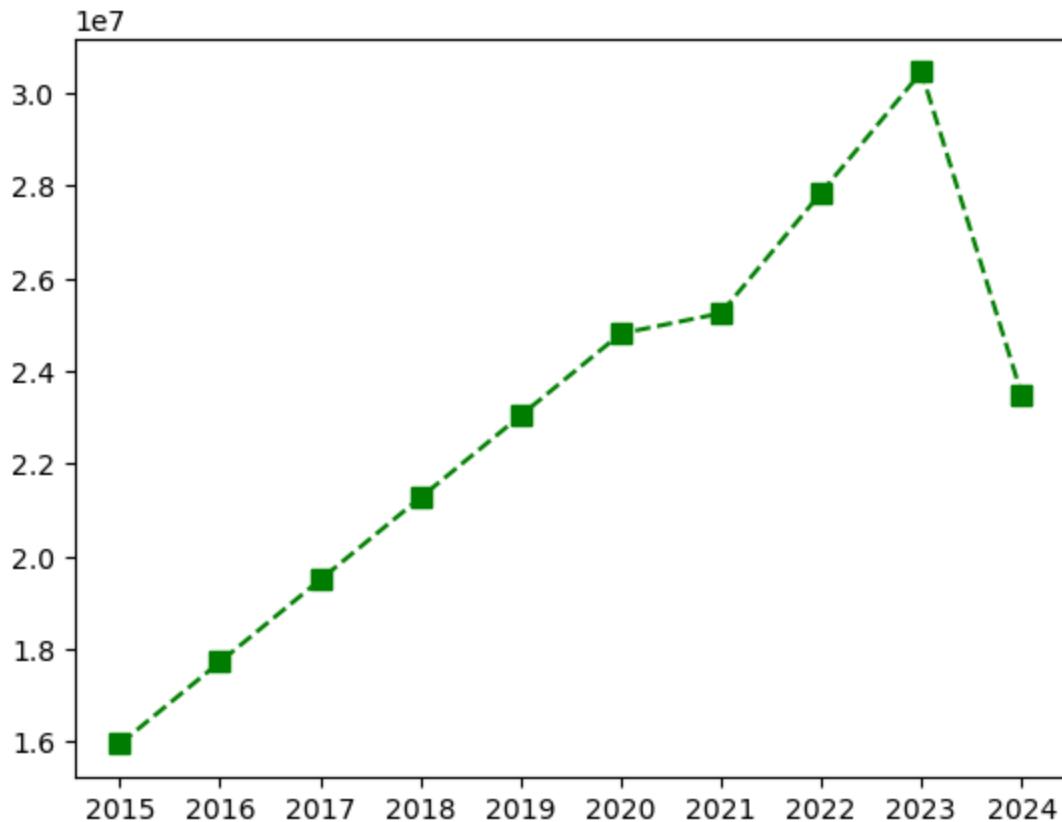
```
Out[36]: [
```



```
In [39]: plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7)  
plt.xticks(list(range(0,10)), Seasons)  
plt.show()
```



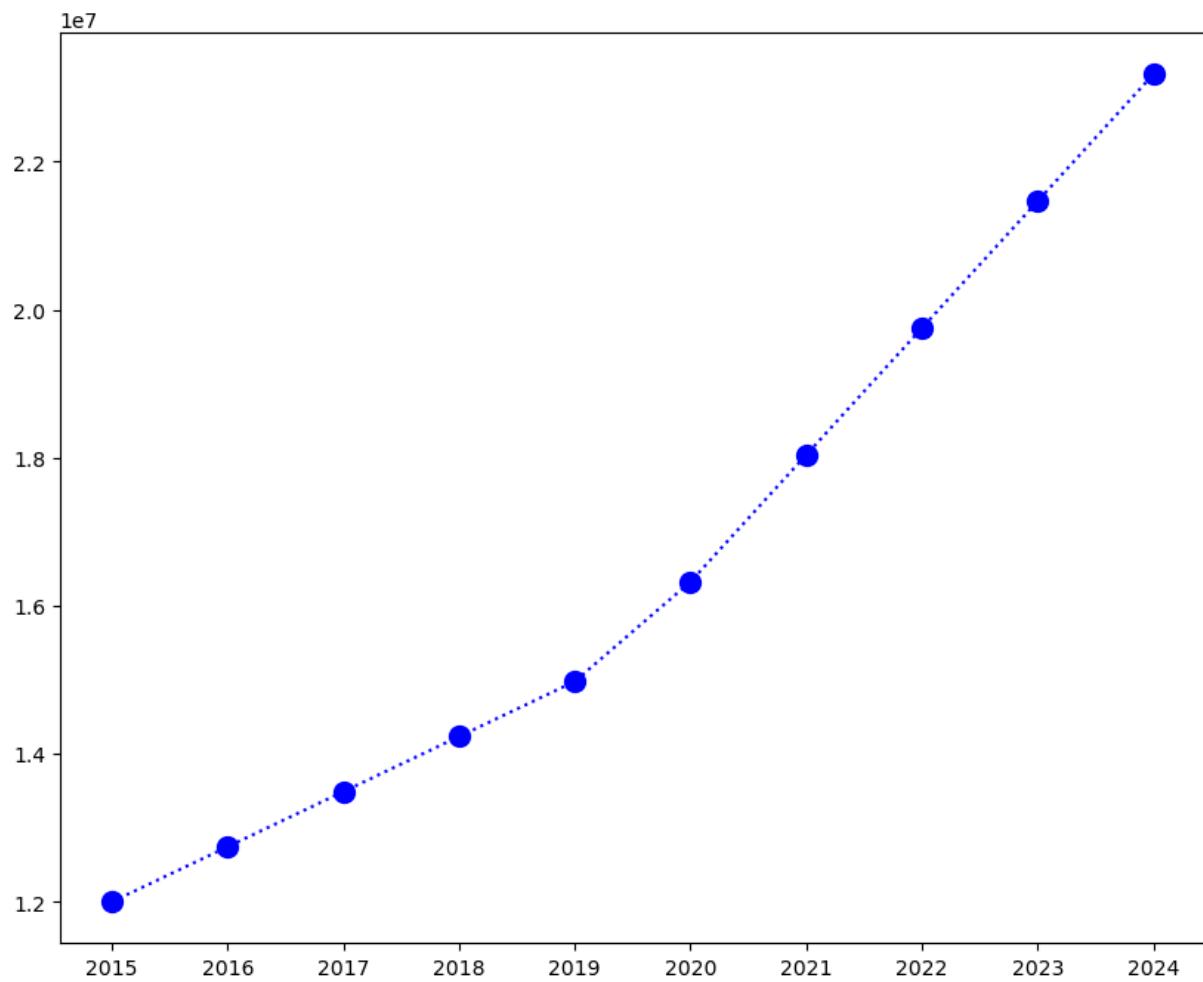
```
In [37]: plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[0])
plt.xticks(list(range(0,10)), Seasons, rotation='horizontal')
plt.show()
```



```
In [40]: Salary[1]
```

```
Out[40]: array([12000000, 12744189, 13488377, 14232567, 14976754, 16324500,
   18038573, 19752645, 21466718, 23180790])
```

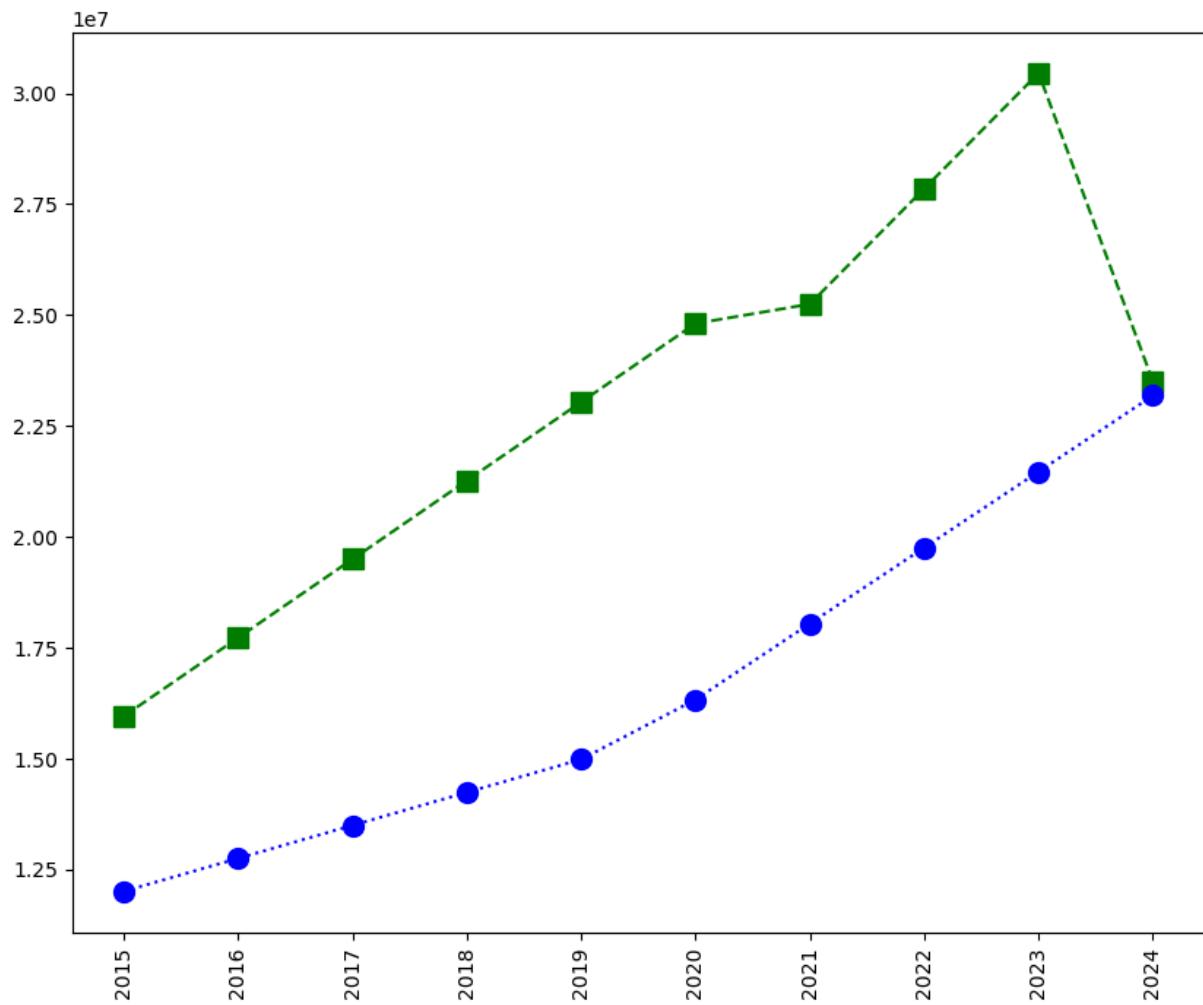
```
In [45]: plt.plot(Salary[1], c='Blue', ls = ':', marker = 'o', ms = 10, label = Players[1])
plt.xticks(list(range(0,10)), Seasons, rotation='horizontal')
plt.show()
```



```
In [46]: plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 10, label = Players[0]
plt.plot(Salary[1], c='Blue', ls = ':', marker = 'o', ms = 10, label = Players[1])

plt.xticks(list(range(0,10)), Seasons, rotation='vertical')

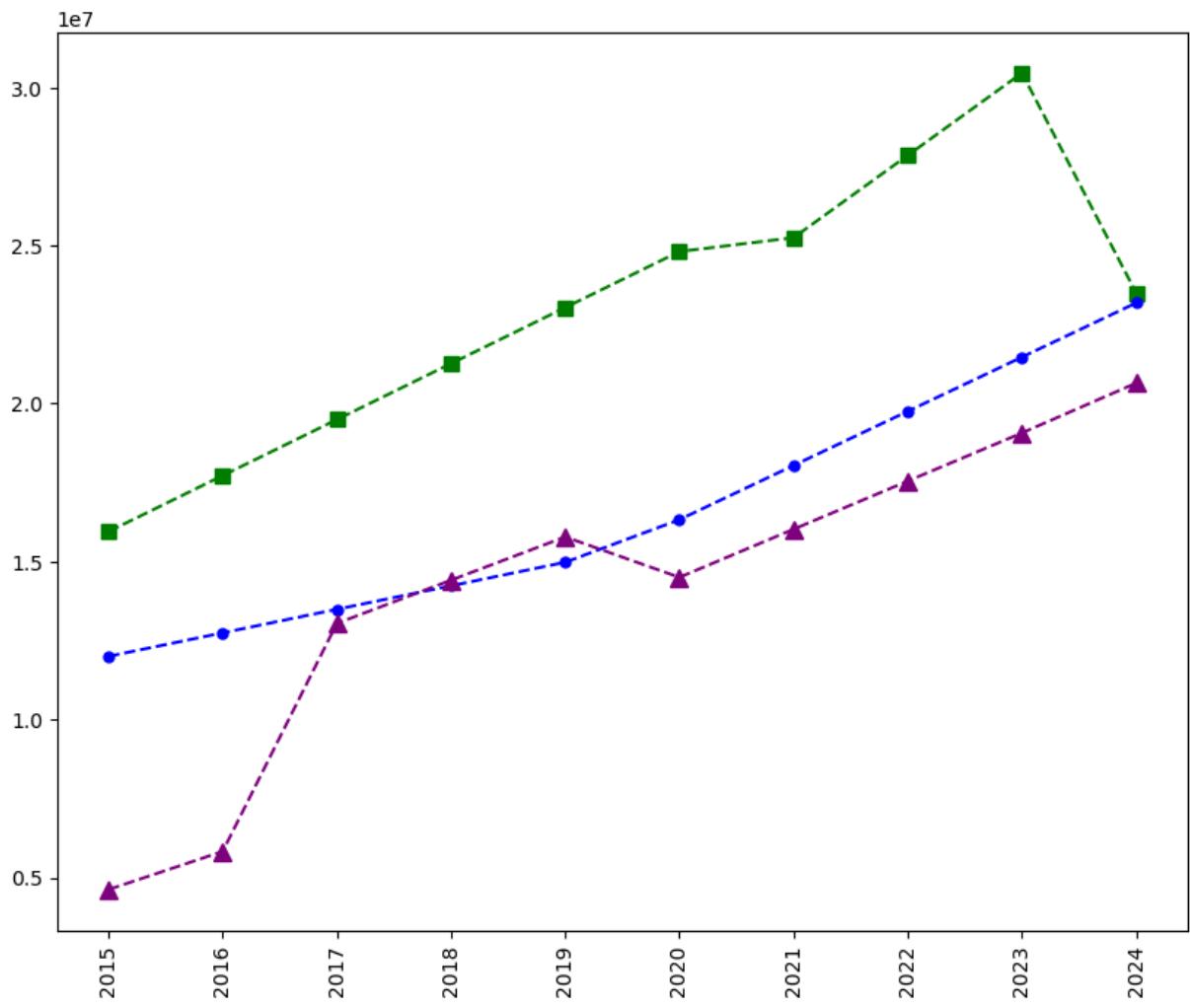
plt.show()
```



```
In [47]: plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[0])
plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label = Players[1])
plt.plot(Salary[2], c='purple', ls = '--', marker = '^', ms = 8, label = Players[2])

plt.xticks(list(range(0,10)), Seasons, rotation='vertical')

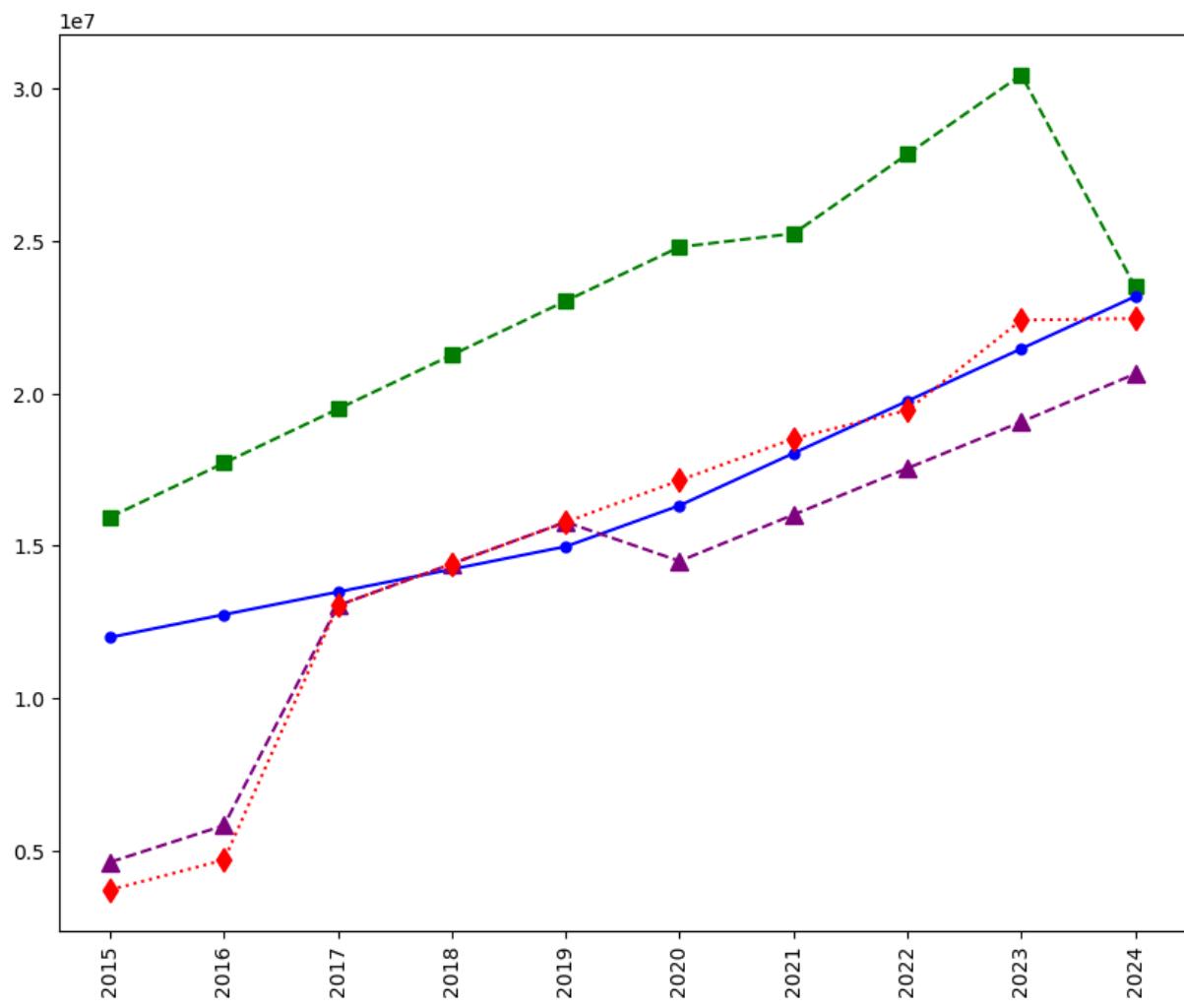
plt.show()
```



```
In [48]: plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[0])
plt.plot(Salary[1], c='Blue', ls = '-.', marker = 'o', ms = 5, label = Players[1])
plt.plot(Salary[2], c='purple', ls = '--', marker = '^', ms = 8, label = Players[2])
plt.plot(Salary[3], c='Red', ls = ':', marker = 'd', ms = 8, label = Players[3])

plt.xticks(list(range(0,10)), Seasons, rotation='vertical')

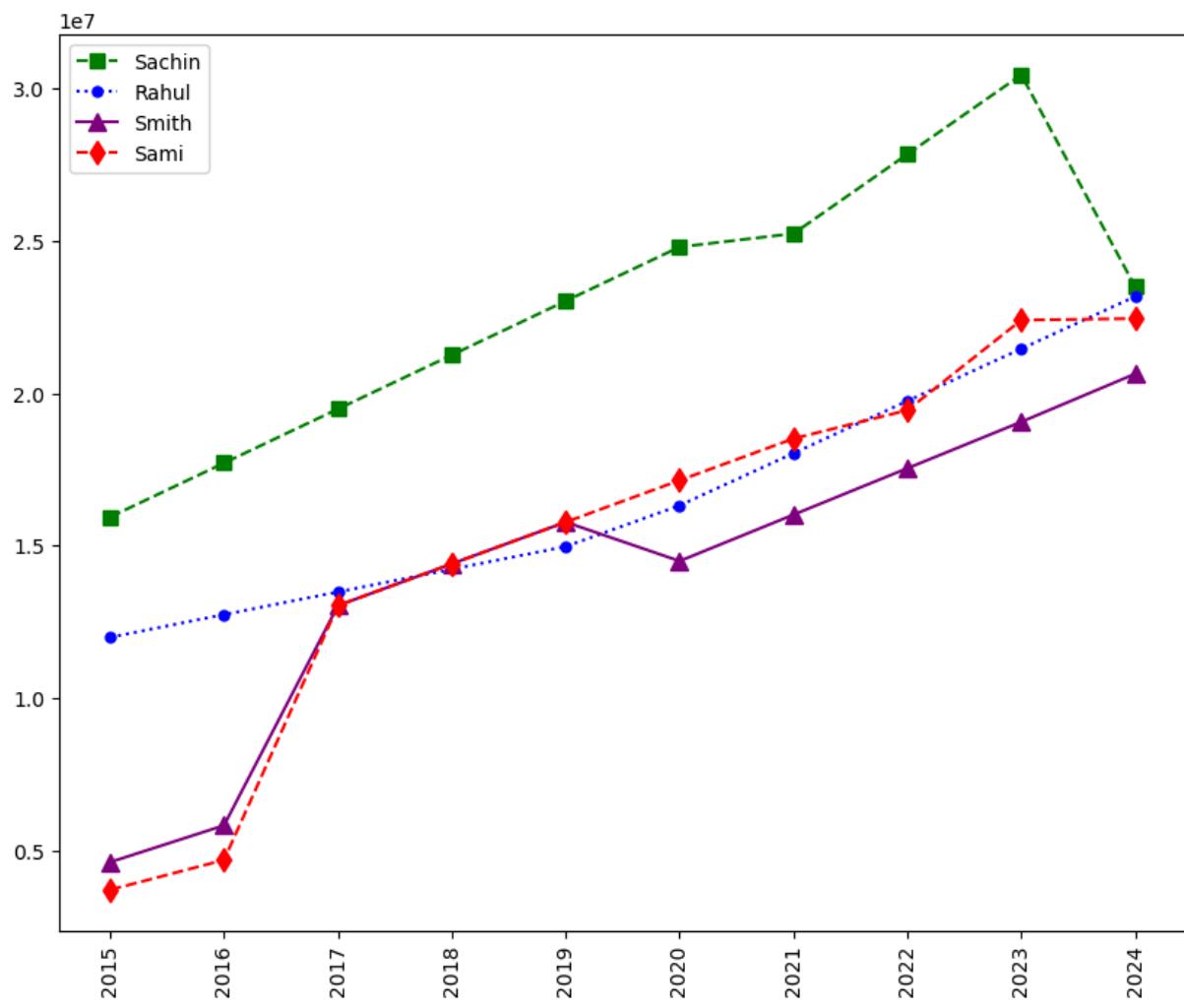
plt.show()
```



In [49]: # add Legend in visualisation

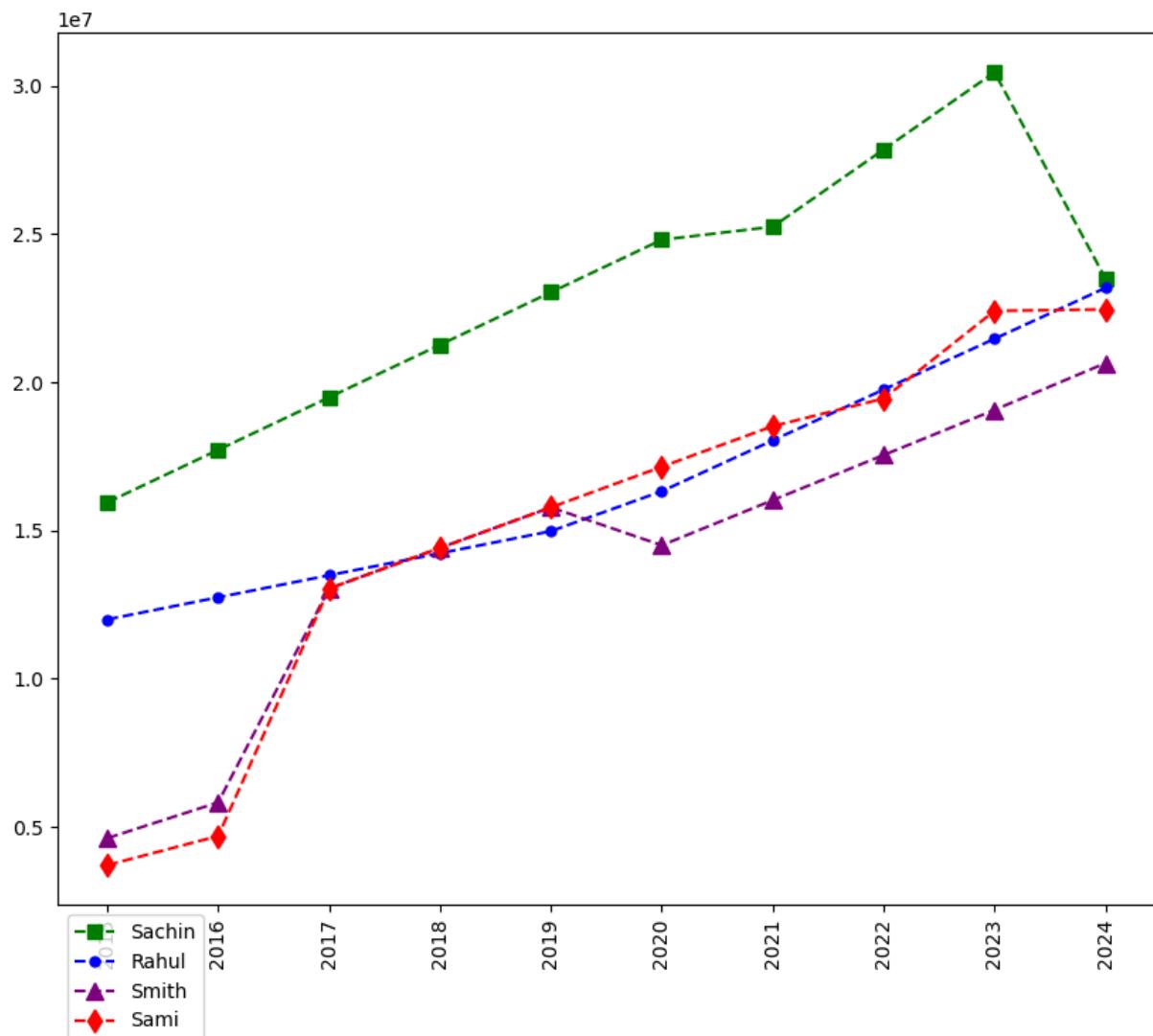
```
plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[0])
plt.plot(Salary[1], c='Blue', ls = ':', marker = 'o', ms = 5, label = Players[1])
plt.plot(Salary[2], c='purple', ls = '-.', marker = '^', ms = 8, label = Players[2])
plt.plot(Salary[3], c='Red', ls = '--', marker = 'd', ms = 8, label = Players[3])
plt.legend()
plt.xticks(list(range(0,10)), Seasons, rotation='vertical')

plt.show()
```



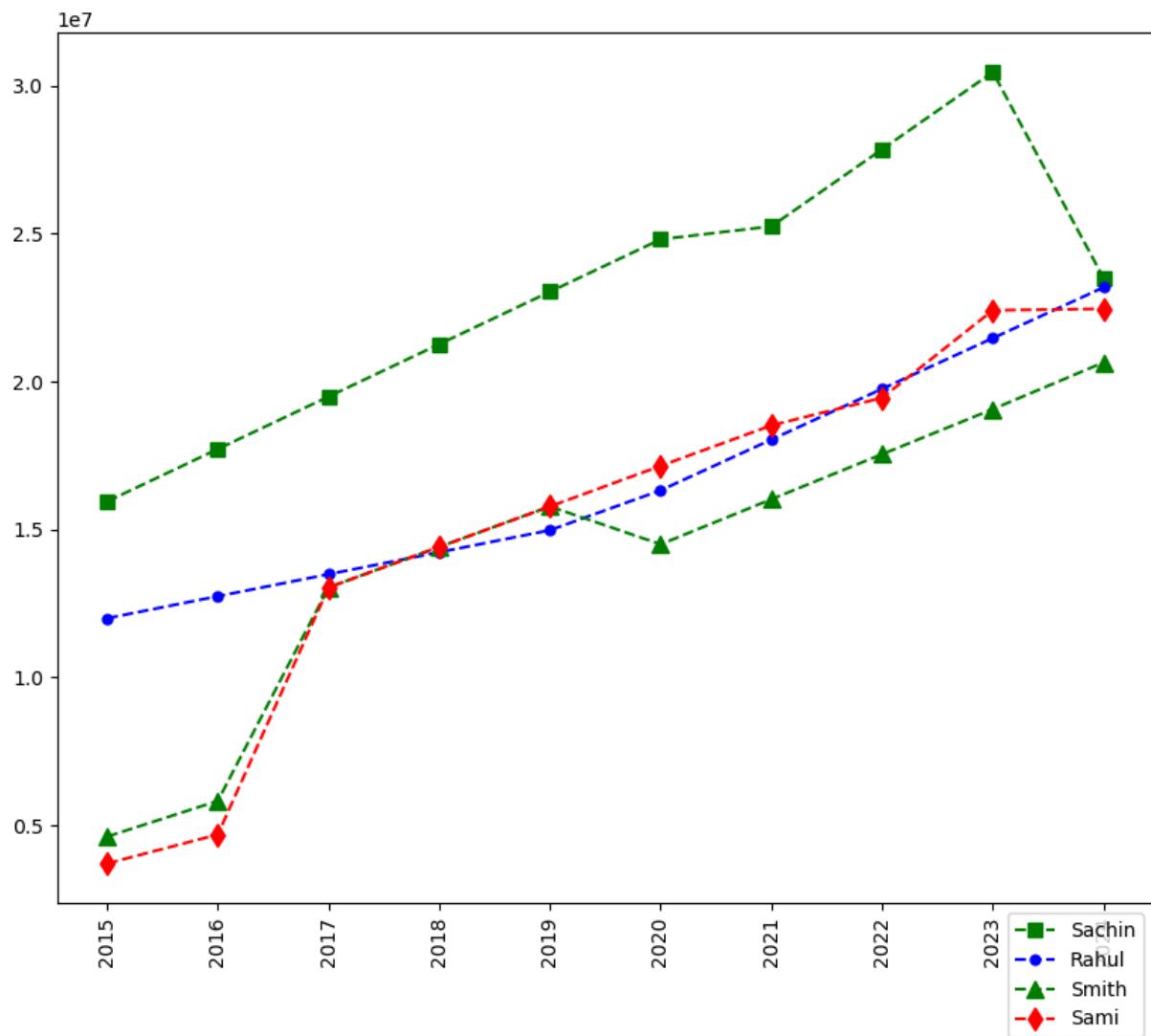
```
In [50]: plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[0])
plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label = Players[1])
plt.plot(Salary[2], c='purple', ls = '--', marker = '^', ms = 8, label = Players[2])
plt.plot(Salary[3], c='Red', ls = '--', marker = 'd', ms = 8, label = Players[3])
plt.legend(loc = 'upper left',bbox_to_anchor=(0,0) )
plt.xticks(list(range(0,10)), Seasons, rotation='vertical')

plt.show()
```



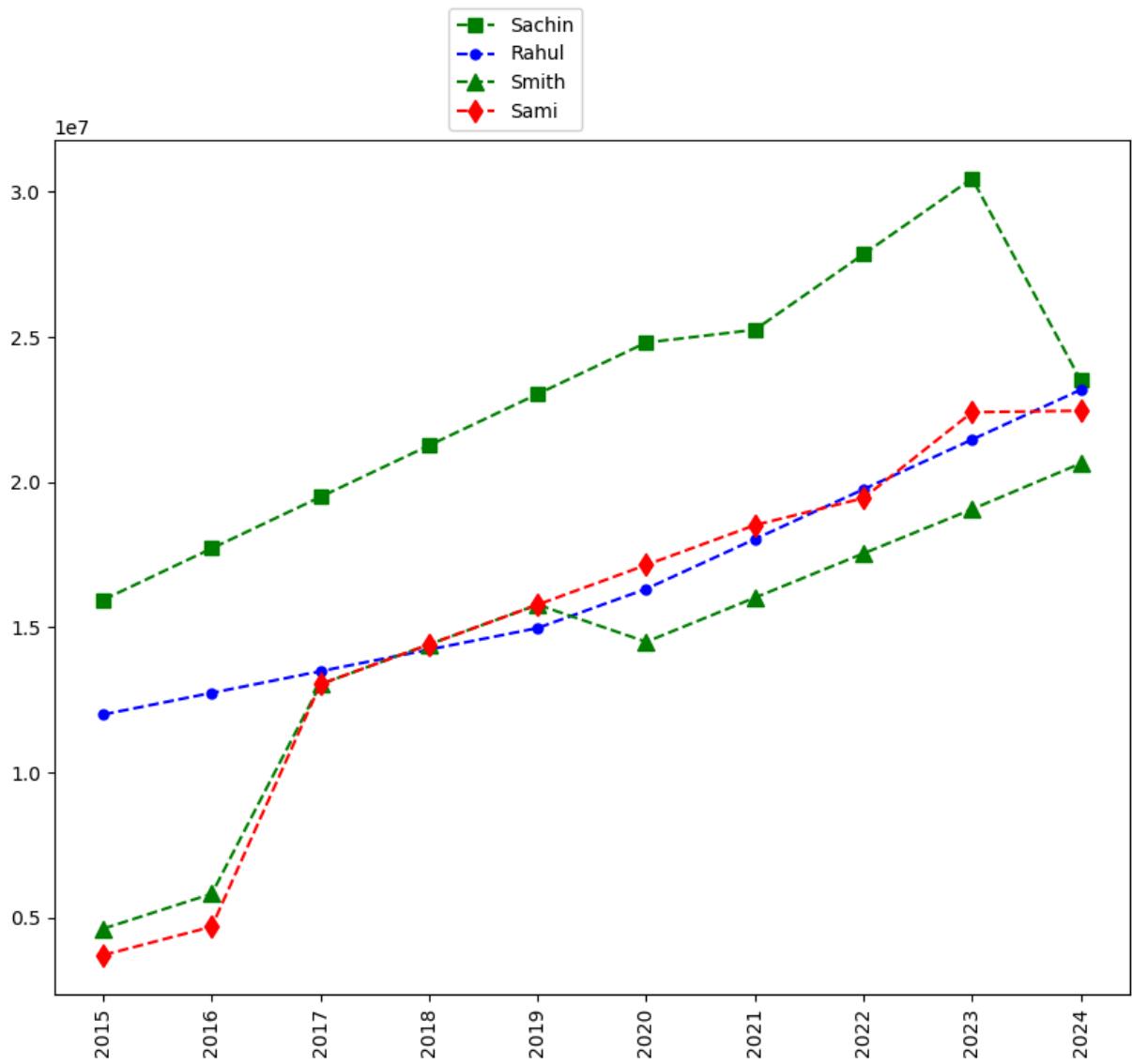
```
In [51]: plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[0])
plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label = Players[1])
plt.plot(Salary[2], c='Green', ls = '--', marker = '^', ms = 8, label = Players[2])
plt.plot(Salary[3], c='Red', ls = '--', marker = 'd', ms = 8, 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 [52]: plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[0])
plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label = Players[1])
plt.plot(Salary[2], c='Green', ls = '--', marker = '^', ms = 8, label = Players[2])
plt.plot(Salary[3], c='Red', ls = '--', marker = 'd', ms = 8, label = Players[3])
plt.legend(loc = 'lower right',bbox_to_anchor=(0.5,1) )
plt.xticks(list(range(0,10)), Seasons, rotation='vertical')

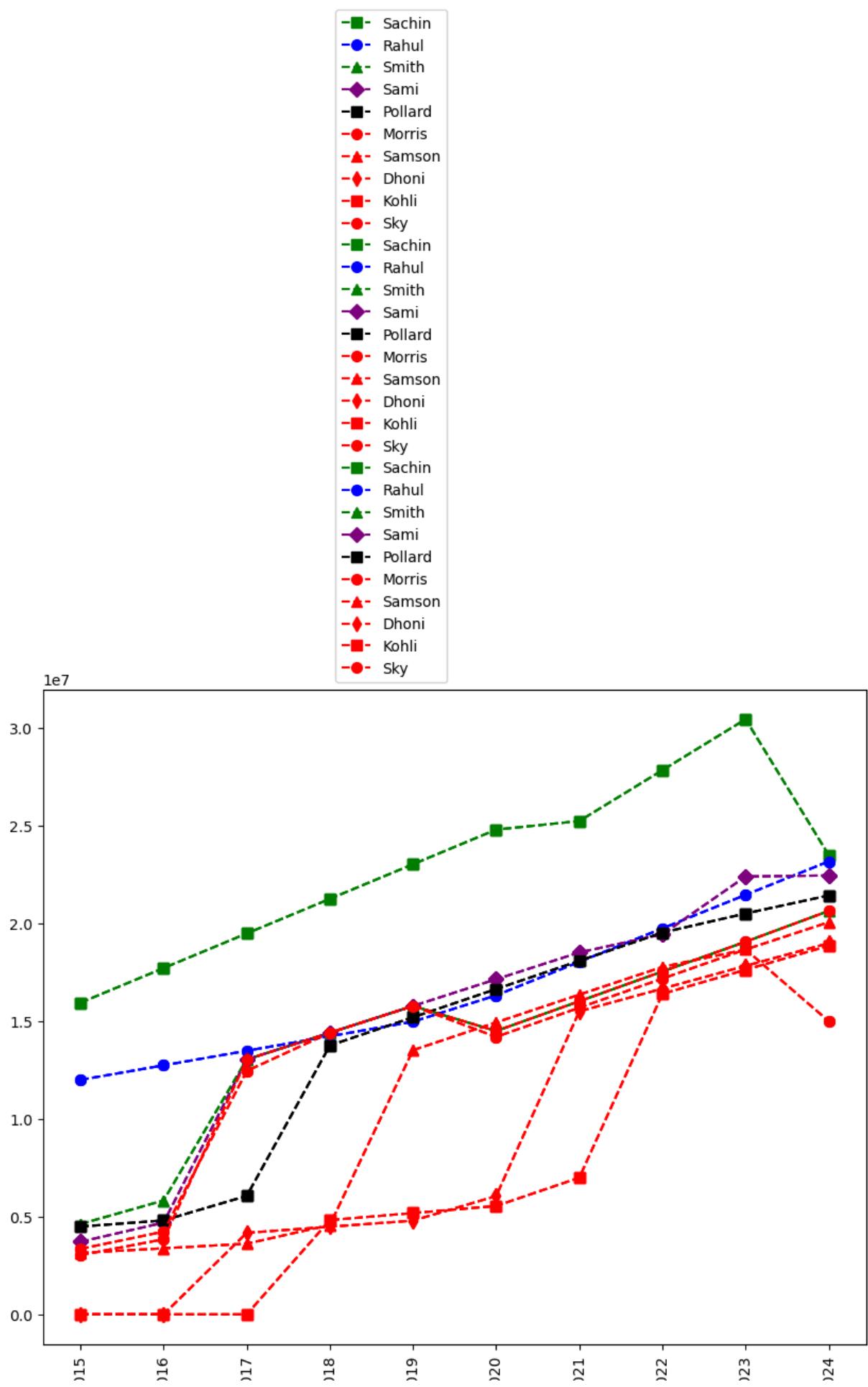
plt.show()
```



```
In [55]: plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[0])
plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 7, label = Players[1])
plt.plot(Salary[2], c='Green', ls = '--', marker = '^', ms = 7, label = Players[2])
plt.plot(Salary[3], c='Purple', ls = '--', marker = 'D', ms = 7, label = Players[3])
plt.plot(Salary[4], c='Black', ls = '--', marker = 's', ms = 7, label = Players[4])
plt.plot(Salary[5], c='Red', ls = '--', marker = 'o', ms = 7, label = Players[5])
plt.plot(Salary[6], c='Red', ls = '--', marker = '^', ms = 7, label = Players[6])
plt.plot(Salary[7], c='Red', ls = '--', marker = 'd', ms = 7, label = Players[7])
plt.plot(Salary[8], c='Red', ls = '--', marker = 's', ms = 7, label = Players[8])
plt.plot(Salary[9], c='Red', ls = '--', marker = 'o', 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.show()
```



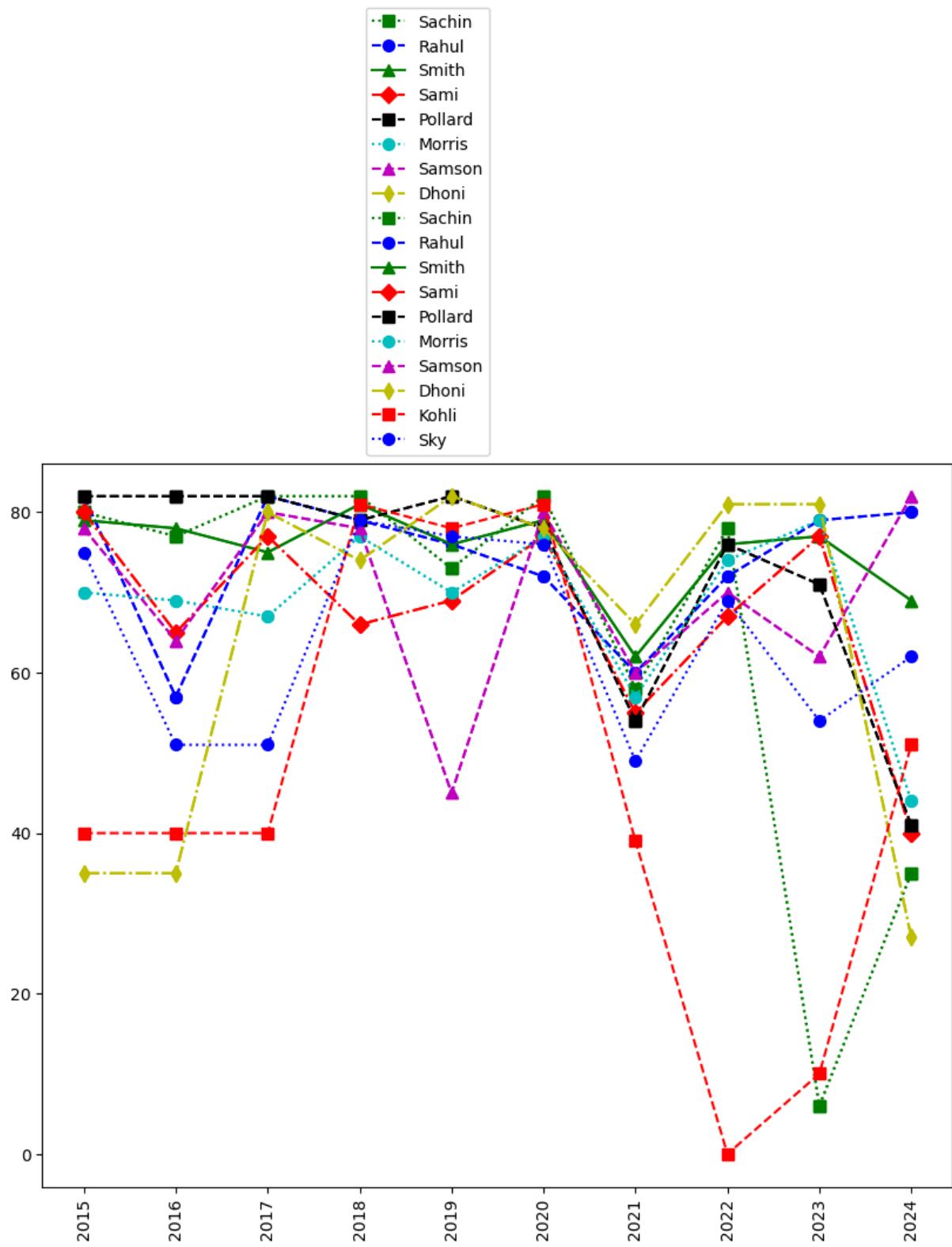
2C 2C 2C 2C 2C 2C 2C 2C 2C 2C

```
In [60]: # we can visualize the how many games played by a player
```

```
plt.plot(Games[0], c='Green', ls = ':' , marker = 's' , ms = 7, label = Players[0])
plt.plot(Games[1], c='Blue', ls = '--' , marker = 'o' , ms = 7, label = Players[1])
plt.plot(Games[2], c='Green', ls = '-' , marker = '^' , ms = 7, label = Players[2])
plt.plot(Games[3], c='Red', ls = '-.' , marker = 'D' , ms = 7, label = Players[3])
plt.plot(Games[4], c='Black', ls = '--' , marker = 's' , ms = 7, label = Players[4])
plt.plot(Games[5], c='c', ls = ':' , marker = 'o' , ms = 7, label = Players[5])
plt.plot(Games[6], c='m', ls = '--' , marker = '^' , ms = 7, label = Players[6])
plt.plot(Games[7], c='y', ls = '-.' , marker = 'd' , ms = 7, label = Players[7])
plt.plot(Games[8], c='Red', ls = '--' , marker = 's' , ms = 7, label = Players[8])
plt.plot(Games[9], c='Blue', ls = ':' , marker = 'o' , 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.show()
```



In []: