```
In [5]: #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
        #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, Samso
        #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
        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
```

```
#PLavers
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, Samso
#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
```

```
Out[7]: 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, 4171200, 4484040, 4796880,
                        0,
                 15506632, 16669630, 17832627, 18995624],
                                            0, 4822800, 5184480, 5546160,
                                  0,
                  6993708, 16402500, 17632688, 18862875],
                 [ 3031920, 3841443, 13041250, 14410581, 15779912, 14200000,
                 15691000, 17182000, 18673000, 15000000]])
 In [9]: # buliding your first matrix
         Games
 Out[9]: 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 [10]: Points
Out[10]: 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 [11]: Games[5]
Out[11]: array([70, 69, 67, 77, 70, 77, 57, 74, 79, 44])
In [12]: Games[0:5]
Out[12]: 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]])
```

```
In [13]: Games[0,5]
Out[13]: 82
In [14]: Games[0,2]
Out[14]: 82
In [15]: Games[1:2]
Out[15]: array([[82, 57, 82, 79, 76, 72, 60, 72, 79, 80]])
In [16]: Games[-3:-1]
Out[16]: array([[35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
                [40, 40, 40, 81, 78, 81, 39, 0, 10, 51]])
In [17]: Games[-3,-1]
Out[17]: 27
In [18]: Games
Out[18]: 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 [19]: Points
Out[19]: 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 [20]: Points[0]
Out[20]: array([2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
                                                                83, 782])
In [21]: Points[-6,-1]
Out[21]: 646
In [22]: Games
```

```
Out[22]: 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 [23]: Pdict
Out[23]: {'Sachin': 0,
           'Rahul': 1,
           'Smith': 2,
           'Sami': 3,
           'Pollard': 4,
           'Morris': 5,
           'Samson': 6,
           'Dhoni': 7,
           'Kohli': 8,
           'Sky': 9}
In [24]: Pdict['Sachin']
Out[24]: 0
In [25]: Pdict['Dhoni']
Out[25]: 7
In [26]: Games[0]
Out[26]: array([80, 77, 82, 82, 73, 82, 58, 78, 6, 35])
In [71]: | Games[7]
Out[71]: array([35, 35, 80, 74, 82, 78, 66, 81, 81, 27])
In [27]: Games[Pdict['Sachin']]
Out[27]: array([80, 77, 82, 82, 73, 82, 58, 78, 6, 35])
In [73]: Games[Pdict['Rahul']]
Out[73]: array([82, 57, 82, 79, 76, 72, 60, 72, 79, 80])
In [28]: Games
```

```
Out[28]: 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 [29]: Pdict['Rahul']
Out[29]: 1
In [30]: Games[1]
Out[30]: array([82, 57, 82, 79, 76, 72, 60, 72, 79, 80])
In [31]: Salary/Games
        C:\Users\Swapnil Rajbhar\AppData\Local\Temp\ipykernel_2792\3709746658.py:1: Runti
        meWarning: divide by zero encountered in divide
```

Salary/Games

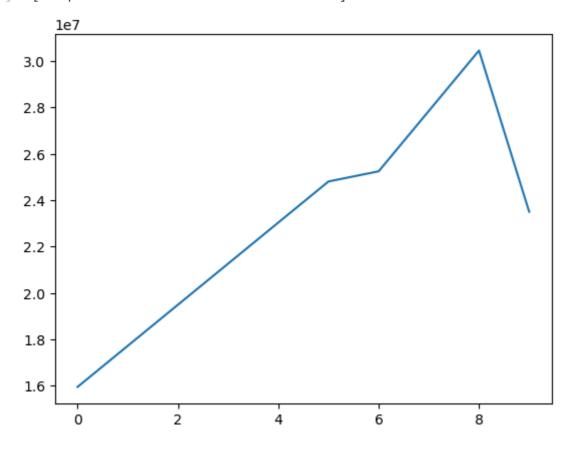
```
Out[31]: array([[ 199335.9375
                                , 230113.63636364, 237690.54878049,
                 259298.7804878 , 315539.38356164, 302515.24390244,
                 435249.87931034, 357040.37179487, 5075634.16666667,
                 671428.57142857],
                [ 146341.46341463, 223582.26315789, 164492.40243902,
                 180159.07594937, 197062.55263158, 226729.16666667,
                 300642.88333333, 274342.29166667, 271730.60759494,
                 289759.875 ],
                58503.79746835, 74719.1025641 , 173883.33333333,
                 177908.40740741, 207630.42105263, 183544.30379747,
                 258427.41935484, 230855.26315789, 247629.87012987,
                 299194.20289855],
                [ 46420.5 , 72216.01538462, 169366.88311688,
                  218342.13636364, 228694.37681159, 222717.44155844,
                 336701.34545455, 290298.50746269, 291006.15584416,
                 561450. ],
                [ 54794.63414634, 58618.53658537, 73917.97560976,
                 174151.89873418, 185397.43902439, 213425.38461538,
                 335032.77777778, 257057.36842105, 288918.
                 522835.87804878],
                [ 47828.57142857, 61380. , 185895.52238806, 187150.4025974 , 225427.31428571, 188311.68831169,
                 281096.49122807, 237094.59459459, 241360.75949367,
                 469190.90909091],
                                            ,
                [ 40310.76923077, 52815.
                                                   45199.5
                  58643.44871795, 300455.5555556, 186751.9125
                 272663.41666667, 253992.25714286, 301103.72580645,
                 244738.57317073],
                     0.
                                      0.
                                              , 52140.
                  60595.13513514, 58498.53658537, 77611.06410256,
                 234948.96969697, 205797.90123457, 220155.88888889,
                  703541.62962963],
                      0. ,
                                       0.
                                                        0.
                  59540.74074074, 66467.69230769, 68471.11111111,
                                    inf, 1763268.8
                 179325.84615385,
                 369860.29411765],
                [ 40425.6 , 75322.41176471, 255710.78431373,
                 182412.41772152, 204933.92207792, 186842.10526316,
                 320224.48979592, 249014.49275362, 345796.2962963,
                  241935.48387097]])
```

In [32]: np.round(Salary/Games)

C:\Users\Swapnil Rajbhar\AppData\Local\Temp\ipykernel_2792\3232172828.py:1: Runti
meWarning: divide by zero encountered in divide
 np.round(Salary/Games)

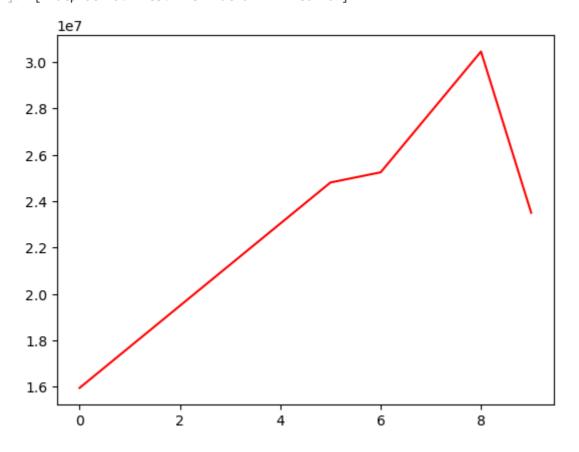
```
Out[32]: array([[ 199336., 230114., 237691., 259299., 315539., 302515.,
                 435250., 357040., 5075634., 671429.],
                [ 146341., 223582., 164492., 180159., 197063., 226729.,
                  300643., 274342., 271731., 289760.],
                [ 58504., 74719., 173883., 177908., 207630., 183544.,
                  258427., 230855., 247630., 299194.],
                [ 46420., 72216., 169367., 218342., 228694., 222717.,
                 336701., 290299., 291006., 561450.],
                [ 54795., 58619., 73918., 174152., 185397., 213425.,
                  335033., 257057., 288918., 522836.],
                [ 47829., 61380., 185896., 187150., 225427., 188312.,
                  281096., 237095., 241361., 469191.],
                           52815., 45200.,
                                              58643., 300456., 186752.,
                [ 40311.,
                  272663., 253992., 301104., 244739.],
                      0.,
                            0., 52140., 60595.,
                                                        58499., 77611.,
                  234949., 205798., 220156., 703542.],
                              0.,
                                              59541., 66468.,
                      0.,
                                         0.,
                                                                 68471..
                             inf, 1763269., 369860.],
                  179326.,
                [ 40426., 75322., 255711., 182412., 204934., 186842.,
                  320224., 249014., 345796., 241935.]])
In [33]: import warnings
         warnings.filterwarnings('ignore')
In [34]: import numpy as np
         import matplotlib.pyplot as plt
In [35]: %matplotlib inline
In [36]: Salary
Out[36]: 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, 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 [37]: | Salary[0]
Out[37]: array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
                25244493, 27849149, 30453805, 23500000])
In [38]: plt.plot(Salary[0])
```

Out[38]: [<matplotlib.lines.Line2D at 0x22221ff2e10>]

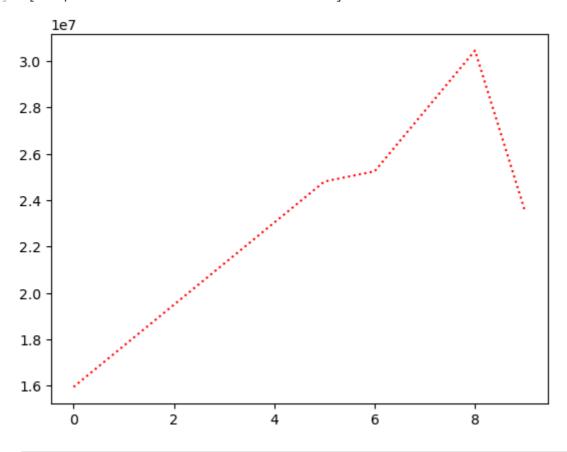


In [39]: plt.plot(Salary[0], color = 'red')

Out[39]: [<matplotlib.lines.Line2D at 0x222221e6420>]

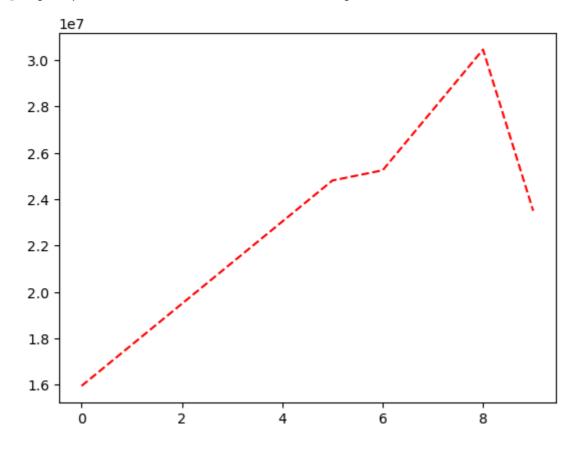


In [97]: plt.plot(Salary[0], color = 'red',ls = ':')



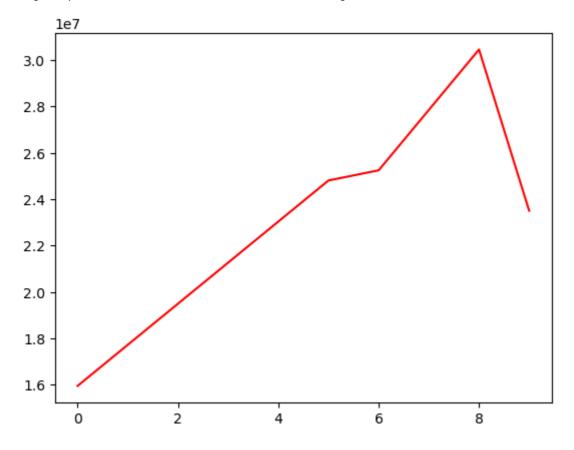
In [99]: plt.plot(Salary[0], color = 'red',ls = '--')

Out[99]: [<matplotlib.lines.Line2D at 0x19dde1f0830>]



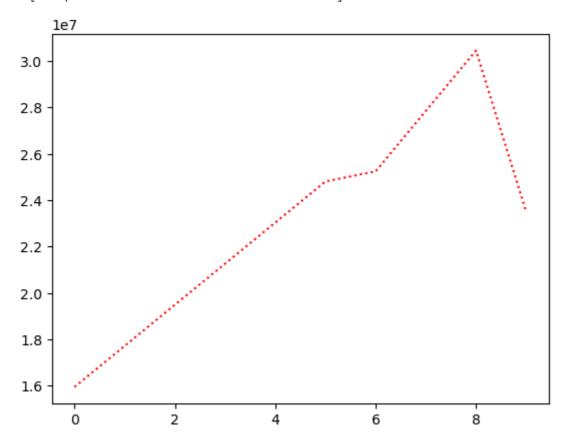
```
In [101... plt.plot(Salary[0], color = 'red',ls = 'solid')
```

Out[101... [<matplotlib.lines.Line2D at 0x19dde3890d0>]



In [103... plt.plot(Salary[0], color = 'red',ls = 'dotted')

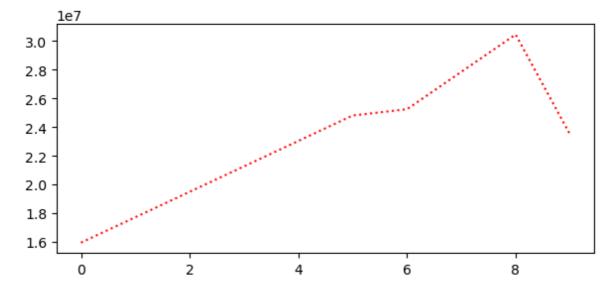
Out[103... [<matplotlib.lines.Line2D at 0x19dde3f6360>]



In [117... %matplotlib inline
 plt.rcParams['figure.figsize'] = 7,3

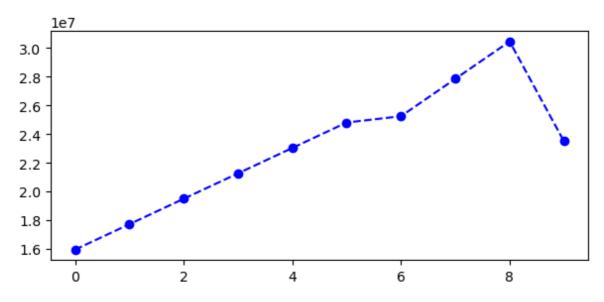
```
In [119... plt.plot(Salary[0], color = 'red',ls = ':')
```

Out[119... [<matplotlib.lines.Line2D at 0x19dde26d250>]



```
In [123... plt.plot(Salary[0], c='Blue', ls = '--', marker = 'o')
```

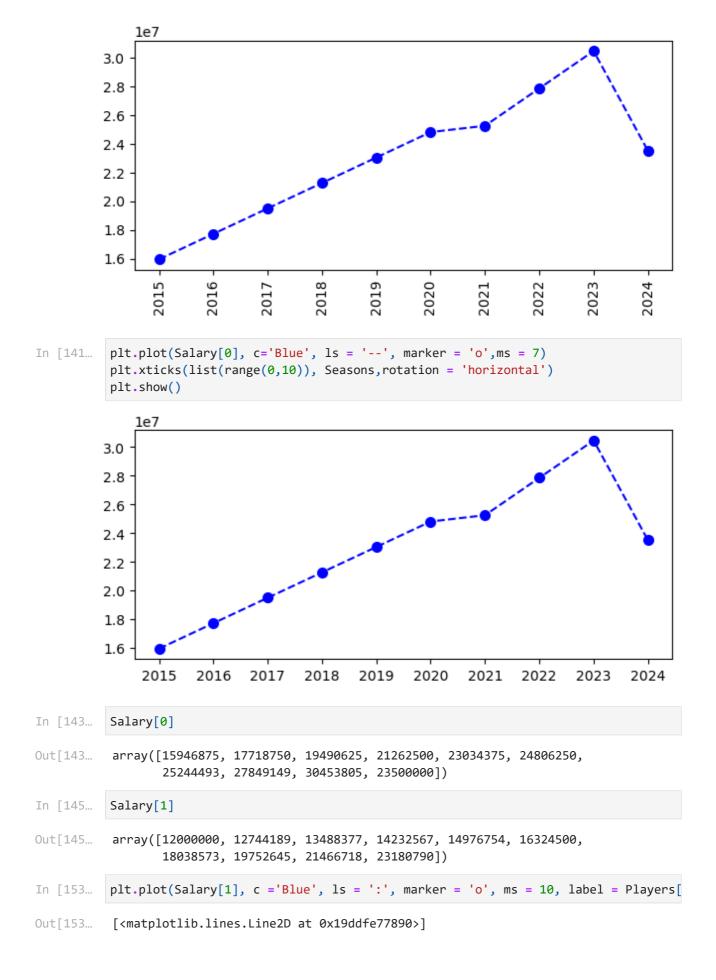
Out[123... [<matplotlib.lines.Line2D at 0x19dde57e210>]

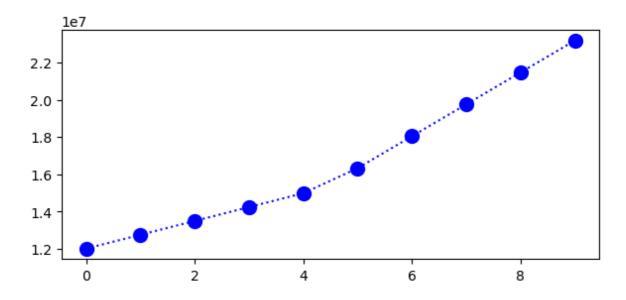


```
In [129... plt.plot(Salary[0], c='Blue', ls = '--', marker = 'o', ms = 8)
    plt.show()
```

```
3.0
          2.8
          2.6
          2.4
          2.2
          2.0
          1.8
          1.6
                                  2
                                                  4
                                                                  6
                                                                                  8
In [131...
           list(range(0,10))
           [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
Out[131...
In [133...
           Sdict
Out[133...
           {'2015': 0,
             '2016': 1,
            '2017': 2,
            '2018': 3,
            '2019': 4,
            '2020': 5,
            '2021': 6,
            '2022': 7,
             '2023': 8,
            '2024': 9}
In [135...
           Pdict
Out[135...
           {'Sachin': 0,
            'Rahul': 1,
             'Smith': 2,
             'Sami': 3,
            'Pollard': 4,
            'Morris': 5,
            'Samson': 6,
            'Dhoni': 7,
            'Kohli': 8,
            'Sky': 9}
           plt.plot(Salary[0], c='Blue', ls = '--', marker = 'o',ms = 7)
In [139...
           plt.xticks(list(range(0,10)), Seasons,rotation = 'vertical')
           plt.show()
```

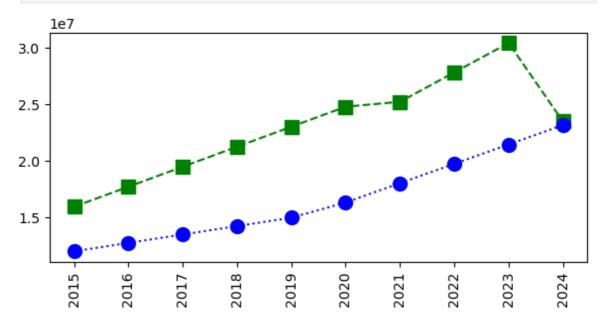
1e7





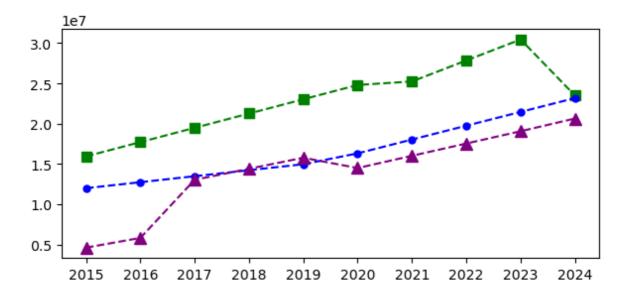
```
In [155... ## More Visualization
```

```
In [157... plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 10, label = Players
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()
```

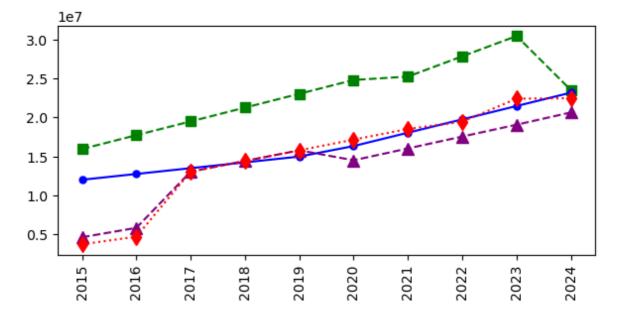


```
In [161... plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[
    plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label = Players[1]
    plt.plot(Salary[2], c='purple', ls = '--', marker = '^', ms = 8, label = Players

    plt.xticks(list(range(0,10)), Seasons,rotation='horizontal')
    plt.show()
```



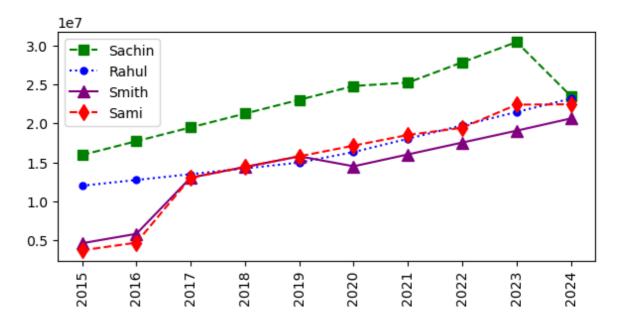
```
In [163...
    plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[
    plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label = Players[1]
    plt.plot(Salary[2], c='purple', ls = '--', marker = '^-', ms = 8, label = Players
    plt.plot(Salary[3], c='Red', ls = ':', marker = 'd', ms = 8, label = Players[3])
    plt.xticks(list(range(0,10)), Seasons,rotation='vertical')
    plt.show()
```



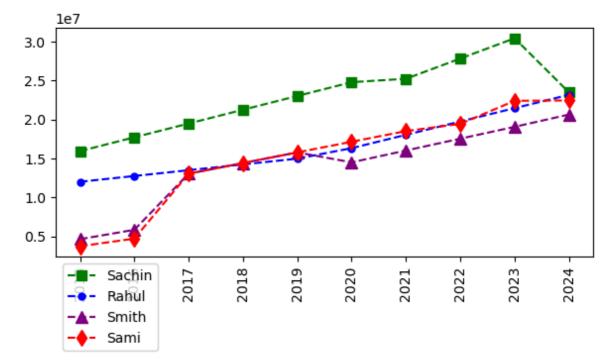
```
In [165... # how to add legned in visualisation

plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[
   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[
   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')

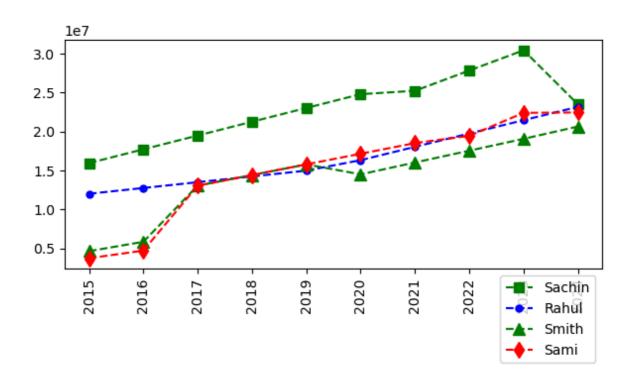
   plt.show()
```



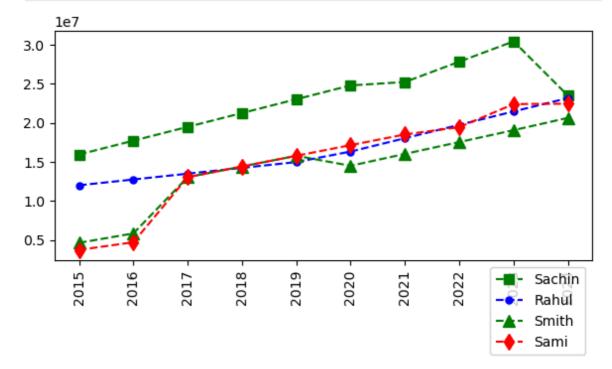
In [173... plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[
 plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label = Players[1]
 plt.plot(Salary[2], c='purple', ls = '--', marker = '^', ms = 8, label = Players
 plt.plot(Salary[3], c='Red', ls = '--', marker = '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.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[
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')
```



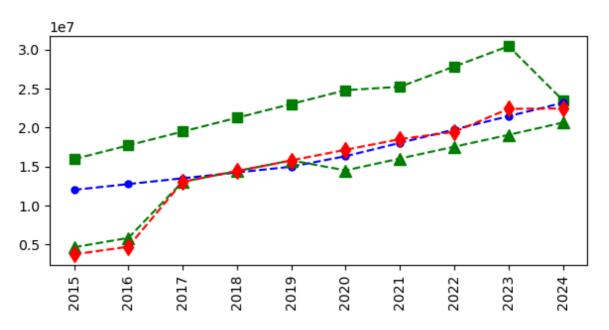
In [177... plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[
 plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label = Players[1
 plt.plot(Salary[2], c='Green', ls = '--', marker = '^', ms = 8, label = Players[
 plt.plot(Salary[3], c='Red', ls = '--', marker = '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.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[
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=(1,2))
plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
```

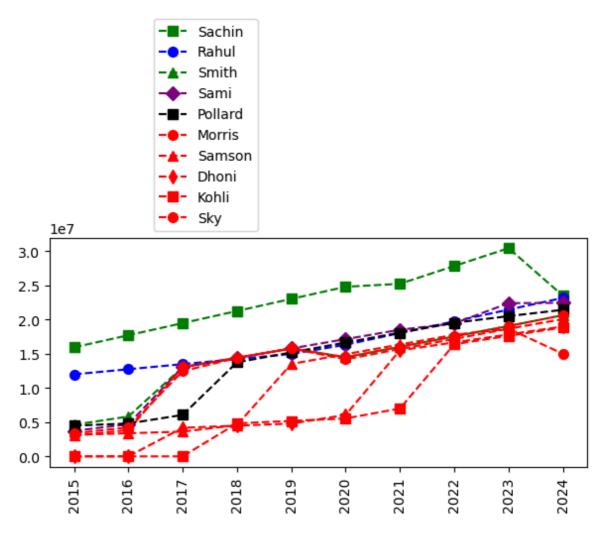
plt.show()





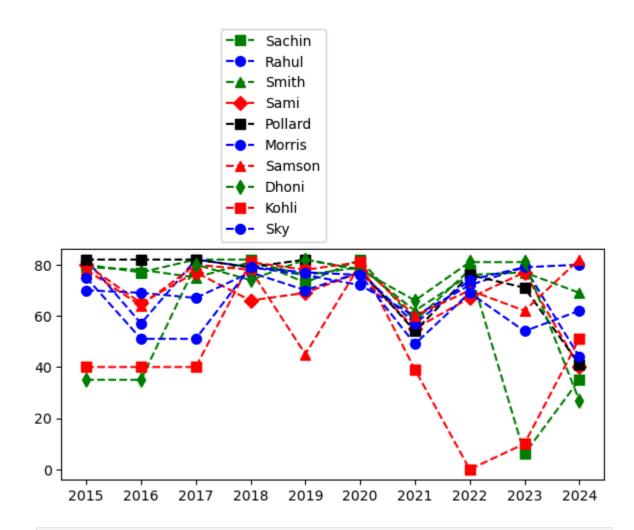
```
In [199...
plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[
plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 7, label = Players[1
plt.plot(Salary[2], c='Green', ls = '--', marker = '\n', ms = 7, label = Players[
plt.plot(Salary[3], c='Purple', ls = '--', marker = 'D', ms = 7, label = Players[
plt.plot(Salary[4], c='Black', ls = '--', marker = 's', ms = 7, label = Players[
plt.plot(Salary[5], c='Red', ls = '--', marker = 'o', ms = 7, label = Players[5]
plt.plot(Salary[6], c='Red', ls = '--', marker = '\n', ms = 7, label = Players[6]
plt.plot(Salary[7], c='Red', ls = '--', marker = '\n', ms = 7, label = Players[7]
plt.plot(Salary[8], c='Red', ls = '--', marker = '\n', ms = 7, label = Players[8]
plt.plot(Salary[9], c='Red', ls = '--', marker = '\n', ms = 7, label = Players[9]

plt.legend(loc = 'lower right', bbox_to_anchor=(0.4,1))
plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
```



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 = '\n', 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='Blue', ls = '--', marker = 'o', ms = 7, label = Players[5], plt.plot(Games[6], c='red', ls = '--', marker = '\n', ms = 7, label = Players[6]), plt.plot(Games[7], c='Green', ls = '--', marker = '\n', ms = 7, label = Players[8]), plt.plot(Games[8], c='Red', ls = '--', marker = '\n', ms = 7, label = Players[8]), plt.plot(Games[9], c='Blue', ls = '--', marker = '\n', ms = 7, label = Players[9]
plt.legend(loc = 'lower right', bbox_to_anchor=(0.5,1))
plt.xticks(list(range(0,10)), Seasons, rotation='horizontal')



In []: