```
In [1]: #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
In [2]: Salary
```

```
Out[2]: 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,
                                 0,
                                                                  5546160,
                 6993708, 16402500, 17632688, 18862875],
                [ 3031920, 3841443, 13041250, 14410581, 15779912, 14200000,
                 15691000, 17182000, 18673000, 15000000]])
In [3]: Games
Out[3]: 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 [4]: Points
Out[4]: 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,
                [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,
                [ 597, 597, 597, 1361, 1619, 2026, 852,
                                                             0, 159,
                [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]])
In [5]: Games[5]
Out[5]: array([70, 69, 67, 77, 70, 77, 57, 74, 79, 44])
In [6]: Games[0:5]
Out[6]: 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]])
```

```
Games
 In [7]:
 Out[7]: 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 [8]: Games[0,5]
 Out[8]: 82
 In [9]:
         Games[0,2]
Out[9]: 82
In [10]:
         Games[-3:-1]
Out[10]: array([[35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
                 [40, 40, 40, 81, 78, 81, 39, 0, 10, 51]])
In [11]:
         Points
Out[11]: 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,
                 [1572, 1561, 1496, 1746, 1678, 1438, 1025, 1232, 1281,
                                                                        9281,
                 [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,
                 [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]])
In [12]:
         Pdict
Out[12]: {'Sachin': 0,
           'Rahul': 1,
           'Smith': 2,
           'Sami': 3,
           'Pollard': 4,
           'Morris': 5,
           'Samson': 6,
           'Dhoni': 7,
           'Kohli': 8,
           'Sky': 9}
In [13]: Games
```

```
Out[13]: 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 [14]: Pdict
Out[14]: {'Sachin': 0,
           'Rahul': 1,
           'Smith': 2,
           'Sami': 3,
           'Pollard': 4,
           'Morris': 5,
           'Samson': 6,
           'Dhoni': 7,
           'Kohli': 8,
           'Sky': 9}
In [15]: Pdict['Rahul']
Out[15]: 1
        Games[1]
In [16]:
Out[16]: array([82, 57, 82, 79, 76, 72, 60, 72, 79, 80])
In [17]: Games[Pdict['Rahul']]
Out[17]: array([82, 57, 82, 79, 76, 72, 60, 72, 79, 80])
In [18]:
         Points
Out[18]: array([[2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
                 [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,
                 [1258, 1104, 1684, 1781, 841, 1268, 1189, 1186, 1185, 1564],
                 [ 903, 903, 1624, 1871, 2472, 2161, 1850, 2280, 2593, 686],
                                                               0, 159,
                 [ 597, 597, 597, 1361, 1619, 2026, 852,
                 [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]])
In [19]: Salary
```

```
Out[19]: 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,
                  15506632, 16669630, 17832627, 18995624],
                                             0, 4822800, 5184480, 5546160,
                                   0,
                  6993708, 16402500, 17632688, 18862875],
                 [ 3031920, 3841443, 13041250, 14410581, 15779912, 14200000,
                  15691000, 17182000, 18673000, 15000000]])
In [20]: Games
Out[20]: 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 [21]: Salary/Games
        C:\Users\Admin\AppData\Local\Temp\ipykernel_9376\3709746658.py:1: RuntimeWarning:
        divide by zero encountered in divide
```

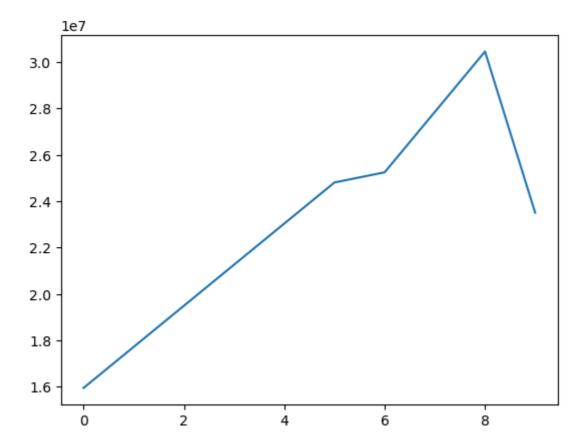
Salary/Games

```
, 230113.63636364, 237690.54878049,
Out[21]: array([[ 199335.9375
                  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],
                                    72216.01538462, 169366.88311688,
                [ 46420.5
                  218342.13636364, 228694.37681159, 222717.44155844,
                  336701.34545455, 290298.50746269, 291006.15584416,
                            ],
                [ 54794.63414634, 58618.53658537, 73917.97560976,
                  174151.89873418, 185397.43902439, 213425.38461538,
                  335032.77777778, 257057.36842105, 288918.
                  522835.87804878],
                                                 , 185895.52238806,
                [ 47828.57142857,
                                    61380.
                  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 [22]: np.round(Salary/Games)

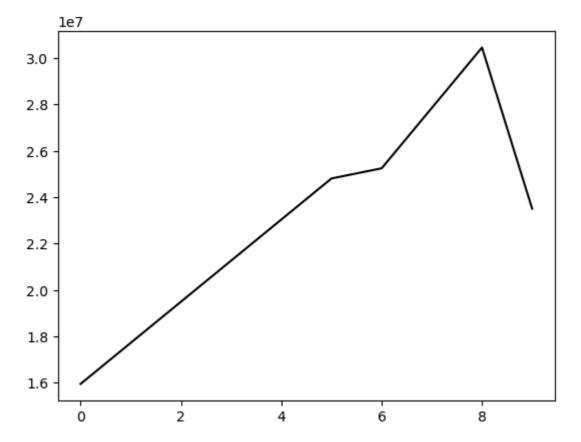
C:\Users\Admin\AppData\Local\Temp\ipykernel_9376\3232172828.py:1: RuntimeWarning:
divide by zero encountered in divide
 np.round(Salary/Games)

```
Out[22]: 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.],
                           72216., 169367., 218342.,
                [ 46420.,
                                                        228694., 222717.,
                  336701., 290299., 291006., 561450.],
                                     73918., 174152., 185397., 213425..
                54795.,
                           58619.,
                  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.,
                           75322., 255711., 182412., 204934., 186842.,
                [ 40426.,
                  320224., 249014., 345796., 241935.]])
In [23]:
         import warnings
         warnings.filterwarnings('ignore')
In [24]: import matplotlib.pyplot as plt
In [25]: %matplotlib inline
In [26]: Salary
Out[26]: 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, 4822800, 5184480, 5546160,
                                 0,
                  6993708, 16402500, 17632688, 18862875],
                [ 3031920, 3841443, 13041250, 14410581, 15779912, 14200000,
                 15691000, 17182000, 18673000, 15000000]])
In [27]: | Salary[0]
Out[27]: array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
                25244493, 27849149, 30453805, 23500000])
In [28]: plt.plot(Salary[0])
Out[28]: [<matplotlib.lines.Line2D at 0x214aea314c0>]
```



In [29]: plt.plot(Salary[0], color='k')

Out[29]: [<matplotlib.lines.Line2D at 0x214b0295b20>]



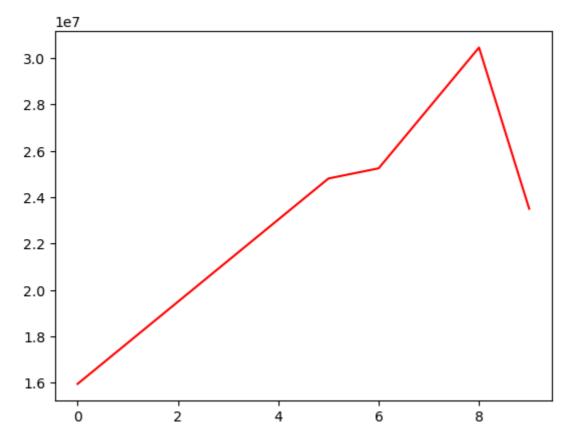
In [30]: plt.plot(Salary[0], color='black')

Out[30]: [<matplotlib.lines.Line2D at 0x214b02fbd40>]



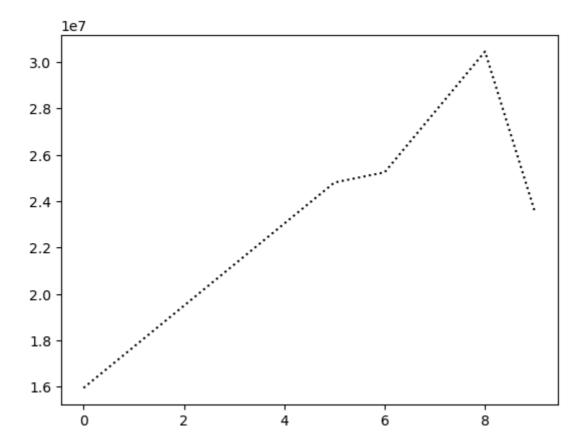
In [31]: plt.plot(Salary[0], c ='r')

Out[31]: [<matplotlib.lines.Line2D at 0x214aeab8110>]



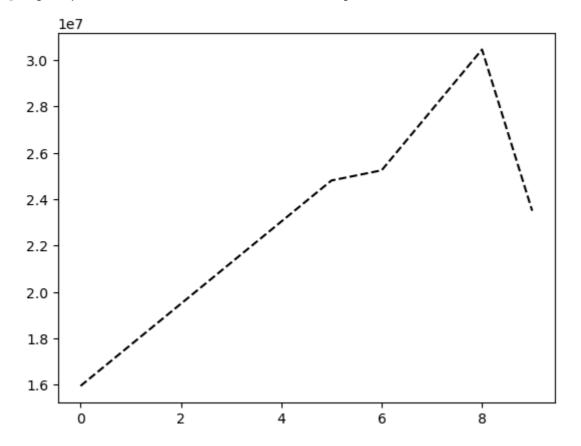
In [32]: plt.plot(Salary[0], c = 'k',ls =':')

Out[32]: [<matplotlib.lines.Line2D at 0x214aeade060>]



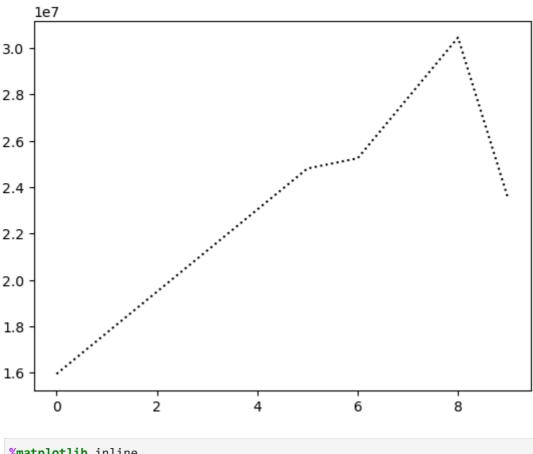
In [33]: plt.plot(Salary[0], c = 'k',ls ='dashed')

Out[33]: [<matplotlib.lines.Line2D at 0x214aeb2e1b0>]



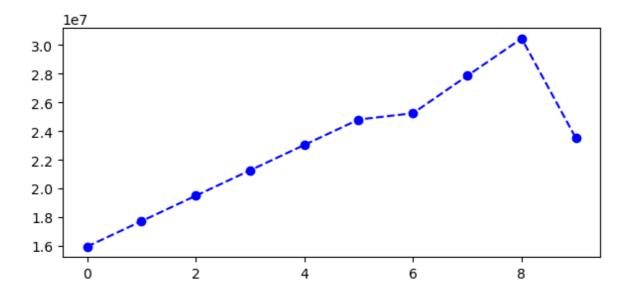
In [34]: plt.plot(Salary[0], c = 'k',ls ='dotted')

Out[34]: [<matplotlib.lines.Line2D at 0x214b03f8110>]



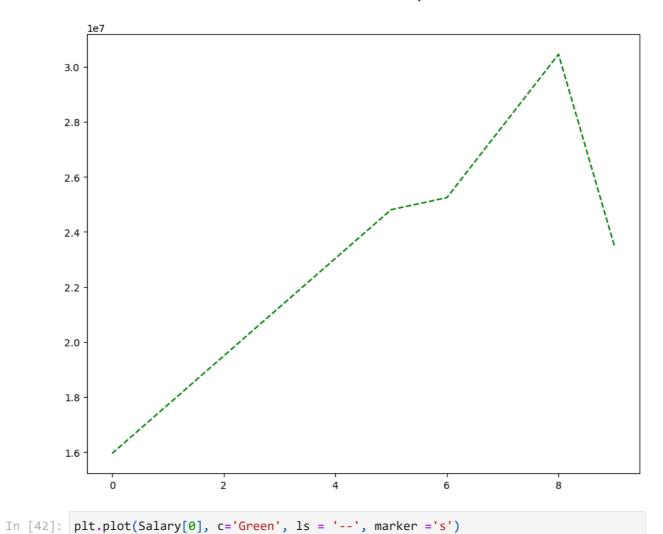
```
In [36]: %matplotlib inline
   plt.rcParams['figure.figsize']= 7,3
In [38]: plt.plot(Salary[0], c = 'Blue',ls ='--', marker ='o')
```

Out[38]: [<matplotlib.lines.Line2D at 0x214b16a9be0>]

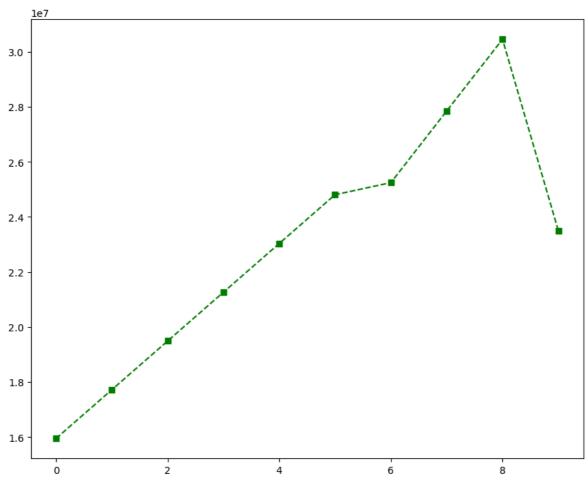


In [41]: plt.plot(Salary[0], c='Green', ls = 'dashed')

Out[41]: [<matplotlib.lines.Line2D at 0x214b6515130>]



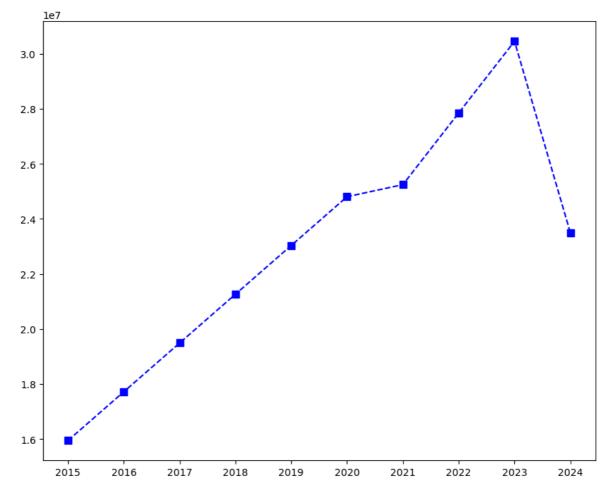
Out[42]: [<matplotlib.lines.Line2D at 0x214b6b08f20>]



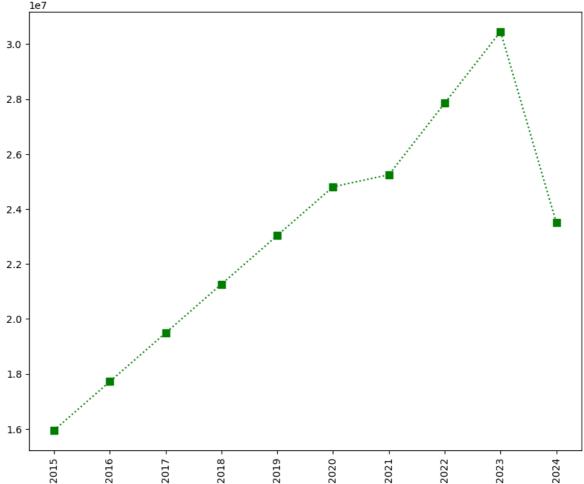
```
list(range(0,10))
In [48]:
Out[48]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
In [49]:
          Sdict
Out[49]:
          {'2015': 0,
           '2016': 1,
           '2017': 2,
           '2018': 3,
           '2019': 4,
           '2020': 5,
           '2021': 6,
           '2022': 7,
           '2023': 8,
           '2024': 9}
In [43]:
          Pdict
Out[43]:
          {'Sachin': 0,
           'Rahul': 1,
           'Smith': 2,
```

'Sami': 3,
'Pollard': 4,
'Morris': 5,
'Samson': 6,
'Dhoni': 7,
'Kohli': 8,
'Sky': 9}

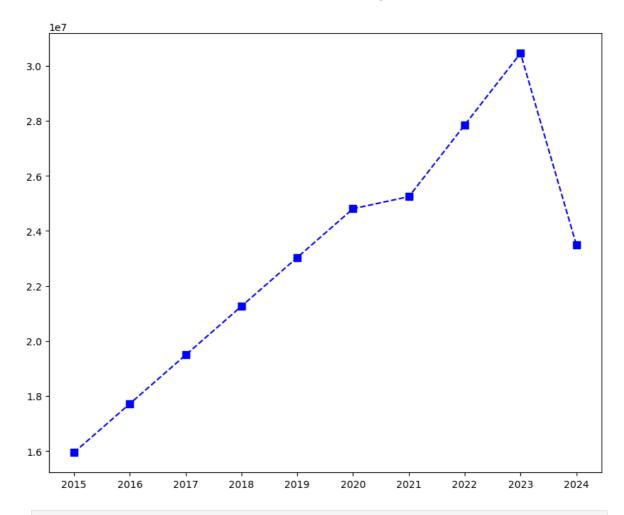
```
In [44]: plt.plot(Salary[0], c='blue', ls = '--', marker = 's', ms = 7)
plt.xticks(list(range(0,10)), Seasons)
plt.show()
```



In [52]: plt.plot(Salary[0], c='Green', ls = ':', marker = 's', ms = 7, label = Players[0]
plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
plt.show()



```
In [45]:
         Games
Out[45]: 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]])
         plt.plot(Salary[0], c='Blue', ls ='--', marker= 's', ms= 7, label= Players[0])
In [47]:
         plt.xticks(list(range(0,10)), Seasons,rotation='horizontal')
         plt.show()
```



```
In [48]: Salary[0]
```

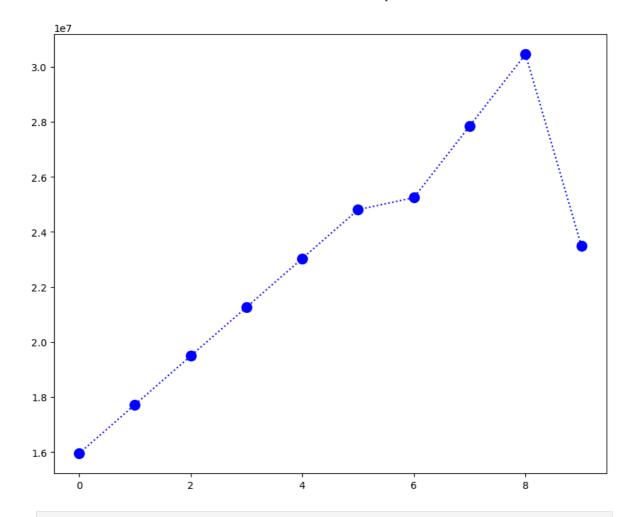
Out[48]: array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250, 25244493, 27849149, 30453805, 23500000])

In [49]: Salary[1]

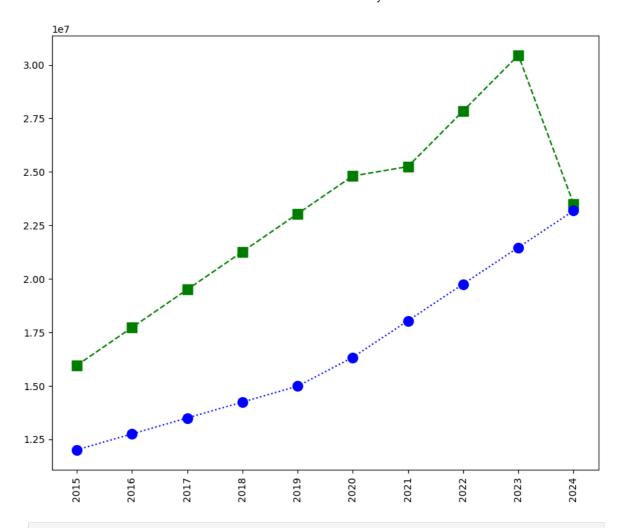
Out[49]: array([12000000, 12744189, 13488377, 14232567, 14976754, 16324500, 18038573, 19752645, 21466718, 23180790])

In [50]: plt.plot(Salary[0], c='Blue', ls = ':', marker ='o', ms=10, label=Players[1])

Out[50]: [<matplotlib.lines.Line2D at 0x214b6629fd0>]



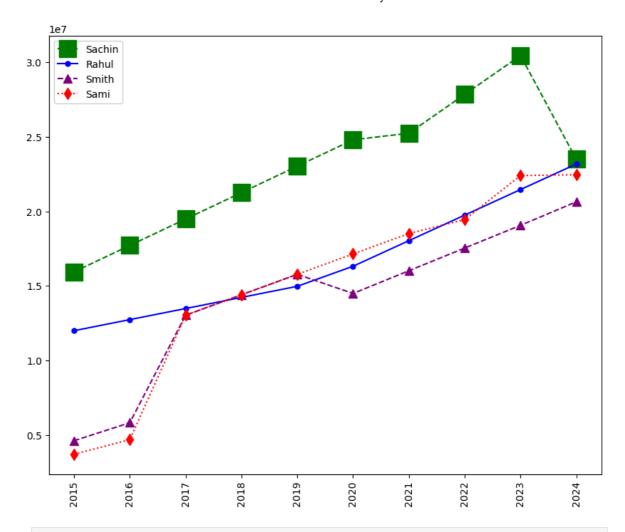
```
In [54]: plt.plot(Salary[0], c='Green', ls = '--', marker ='s', ms=10, label=Players[0])
plt.plot(Salary[1], c='Blue', ls = ':', marker ='o', ms=10, label=Players[1])
plt.xticks(list(range(0,10)), Seasons,rotation='vertical')
plt.show()
```



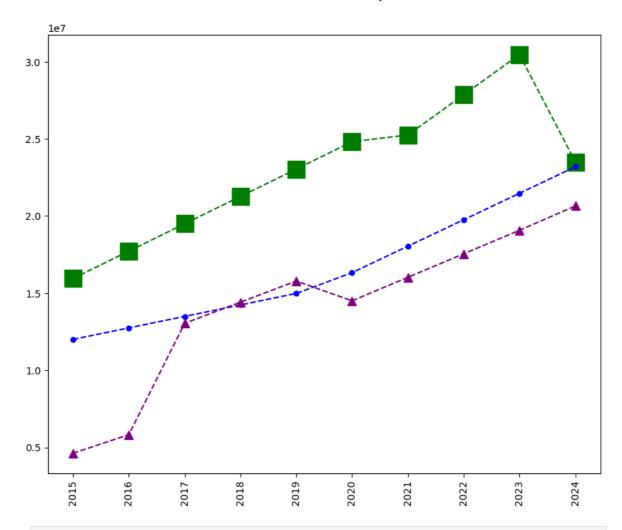
```
In [58]: plt.plot(Salary[0], c='Green', ls = '--', marker ='s', ms=17, label=Players[0])
   plt.plot(Salary[1], c='Blue', ls = '--', marker ='o', ms=5, label=Players[1])
   plt.plot(Salary[2], c='purple', ls = '--', marker ='^', ms=8, label=Players[2])
   plt.plot(Salary[3], c='red', ls = ':', marker ='d', ms=8, label=Players[3])
   plt.legend()

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

plt.show()
```



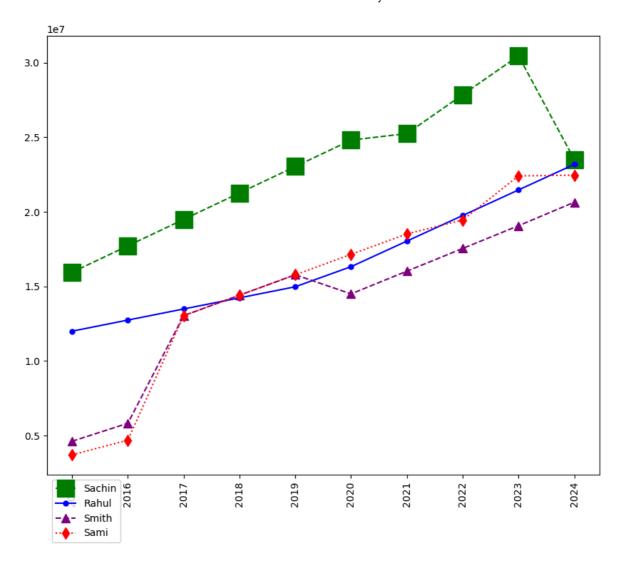
```
In [57]: plt.plot(Salary[0], c='Green', ls = '--', marker ='s', ms=17, label=Players[0])
    plt.plot(Salary[1], c='Blue', ls = '--', marker ='o', ms=5, label=Players[1])
    plt.plot(Salary[2], c='purple', ls = '--', marker ='^', ms=8, label=Players[2])
    plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
    plt.show()
```



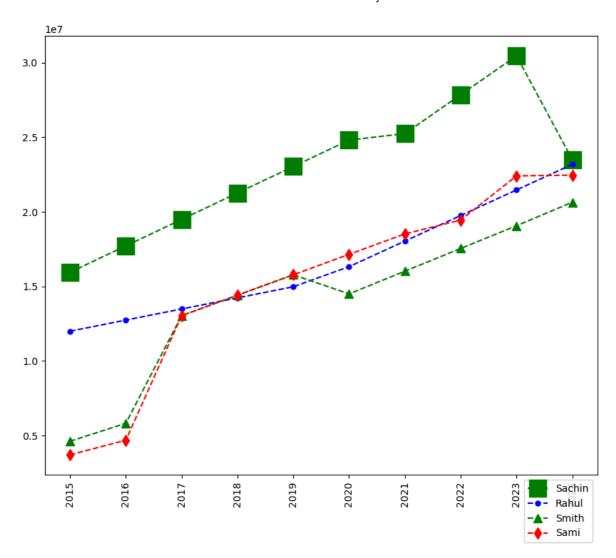
```
In [60]: plt.plot(Salary[0], c='Green', ls = '--', marker ='s', ms=17, label=Players[0])
   plt.plot(Salary[1], c='Blue', ls = '-', marker ='o', ms=5, label=Players[1])
   plt.plot(Salary[2], c='purple', ls = '--', marker ='^', ms=8, label=Players[2])
   plt.plot(Salary[3], c='red', ls = ':', marker ='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()
```



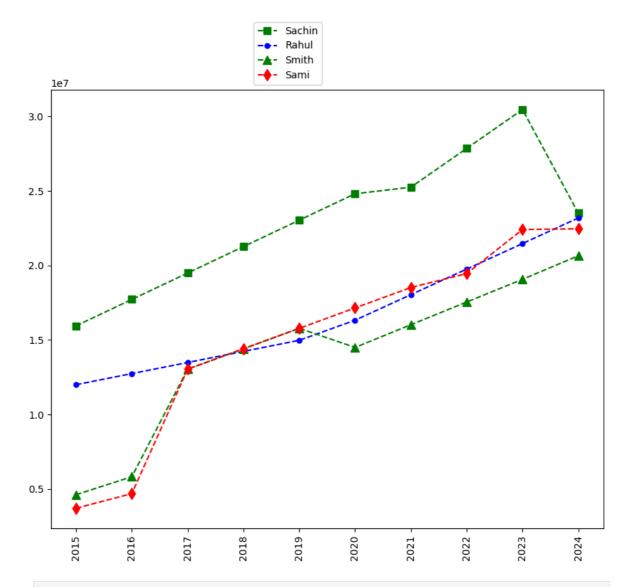
```
In [61]:
    plt.plot(Salary[0], c='Green', ls = '--', marker ='s', ms=17, label=Players[0])
    plt.plot(Salary[1], c='Blue', ls = '--', marker ='o', ms=5, label=Players[1])
    plt.plot(Salary[2], c='Green', ls = '--', marker ='^', ms=8, label=Players[2])
    plt.plot(Salary[3], c='red', ls = '--', 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')
```



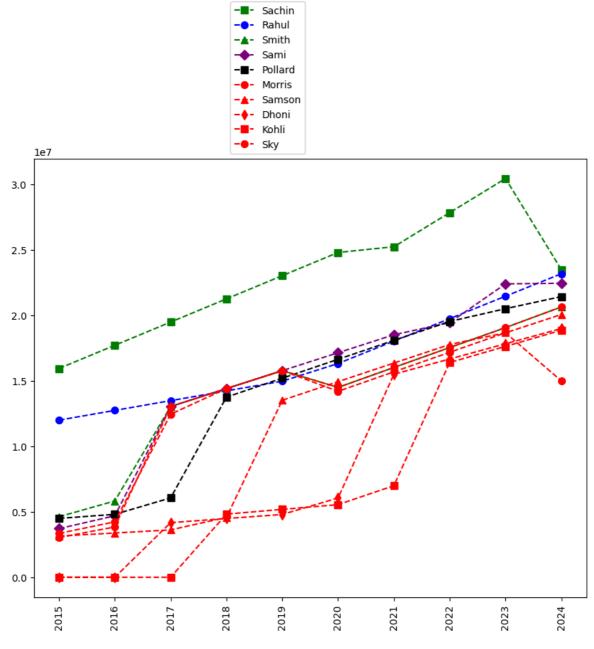
```
In [64]: plt.plot(Salary[0], c='Green', ls = '--', marker ='s', ms=7, label=Players[0])
    plt.plot(Salary[1], c='Blue', ls = '--', marker ='o', ms=5, label=Players[1])
    plt.plot(Salary[2], c='Green', ls = '--', marker ='^', ms=8, label=Players[2])
    plt.plot(Salary[3], c='red', ls = '--', 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')

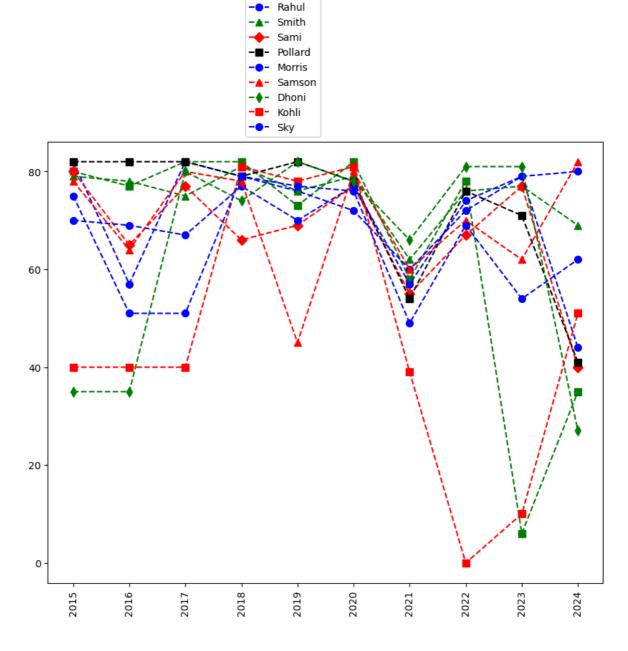
plt.show()
```



```
In [65]: 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='\n',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='\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='\s',ms=7, label=Players[8])
    plt.plot(Salary[9],c='red',ls='--',marker='\s',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')
```



```
In [66]: 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='Blue',ls='--',marker='o',ms=7, label=Players[5])
   plt.plot(Games[6],c='red',ls='--',marker='^',ms=7, label=Players[6])
   plt.plot(Games[8],c='red',ls='--',marker='d',ms=7, label=Players[7])
   plt.plot(Games[9],c='Blue',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')
```



• In this section we learned -

1>Matrices 2>Building matrices - np.reshape 3>Dictionaried in python (order doesnot mater) (keys & values) 4>visualizaing using pyplot 5>Basket ball analysis

In []: