

```
In [1]: import numpy as np
```

```
In [2]: np.__version__
```

```
Out[2]: '2.1.3'
```

```
In [3]: #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", "
Pdct = {"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 [4]: Salary
```

```
Out[4]: 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 [7]: mydata=np.arange(0,20)
        print(mydata)
```

```
[ 0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19]
```

```
In [8]: np.reshape(mydata,(4,5))
```

```
Out[8]: array([[ 0,  1,  2,  3,  4],
               [ 5,  6,  7,  8,  9],
               [10, 11, 12, 13, 14],
               [15, 16, 17, 18, 19]])
```

```
In [9]: mydata
```

```
Out[9]: array([ 0,  1,  2,  3,  4,  5,  6,  7,  8,  9, 10, 11, 12, 13, 14, 15, 16,
               17, 18, 19])
```

```
In [38]: MATR1=mydata.reshape(5,4,order='c')
MATR1
```

```
Out[38]: array([[ 0,  1,  2,  3],
               [ 4,  5,  6,  7],
               [ 8,  9, 10, 11],
               [12, 13, 14, 15],
               [16, 17, 18, 19]])
```

```
In [39]: MATR1
```

```
Out[39]: array([[ 0,  1,  2,  3],
               [ 4,  5,  6,  7],
               [ 8,  9, 10, 11],
               [12, 13, 14, 15],
               [16, 17, 18, 19]])
```

```
In [41]: MATR1[4,3]
```

```
Out[41]: np.int64(19)
```

```
In [42]: MATR1[3,3]
```

```
Out[42]: np.int64(15)
```

```
In [43]: MATR1[-3,-1]
```

```
Out[43]: np.int64(11)
```

```
In [44]: mydata
```

```
Out[44]: array([ 0,  1,  2,  3,  4,  5,  6,  7,  8,  9, 10, 11, 12, 13, 14, 15, 16,
               17, 18, 19])
```

```
In [47]: MATR2=np.reshape(mydata,(5,4),order='F')
MATR2
```

```
Out[47]: array([[ 0,  5, 10, 15],
               [ 1,  6, 11, 16],
               [ 2,  7, 12, 17],
               [ 3,  8, 13, 18],
               [ 4,  9, 14, 19]])
```

```
In [48]: MATR2[4,3]
```

```
Out[48]: np.int64(19)
```

```
In [49]: MATR2[0,2]
```

```
Out[49]: np.int64(10)
```

```
In [50]: MATR2[-2,-4]
```

```
Out[50]: np.int64(3)
```

```
In [51]: MATR2[0:4]
```

```
Out[51]: array([[ 0,  5, 10, 15],
                [ 1,  6, 11, 16],
                [ 2,  7, 12, 17],
                [ 3,  8, 13, 18]])
```

```
In [52]: MATR2[3:4]
```

```
Out[52]: array([[ 3,  8, 13, 18]])
```

```
In [53]: MATR2[0:2]
```

```
Out[53]: array([[ 0,  5, 10, 15],
                [ 1,  6, 11, 16]])
```

```
In [54]: MATR2[1:2]
```

```
Out[54]: array([[ 1,  6, 11, 16]])
```

```
In [55]: MATR2[1,2]
```

```
Out[55]: np.int64(11)
```

```
In [56]: MATR2[-2,-1]
```

```
Out[56]: np.int64(18)
```

```
In [57]: MATR2[-3,-3]
```

```
Out[57]: np.int64(7)
```

```
In [58]: MATR2
```

```
Out[58]: array([[ 0,  5, 10, 15],
                [ 1,  6, 11, 16],
                [ 2,  7, 12, 17],
                [ 3,  8, 13, 18],
                [ 4,  9, 14, 19]])
```

```
In [59]: MATR2[4]
```

```
Out[59]: array([ 4,  9, 14, 19])
```

```
In [60]: mydata
```

```
Out[60]: array([ 0,  1,  2,  3,  4,  5,  6,  7,  8,  9, 10, 11, 12, 13, 14, 15, 16,
                17, 18, 19])
```

```
In [61]: matr3=mydata.reshape(5,4,order='A')
         matr3
```

```
Out[61]: array([[ 0,  1,  2,  3],
               [ 4,  5,  6,  7],
               [ 8,  9, 10, 11],
               [12, 13, 14, 15],
               [16, 17, 18, 19]])
```

```
In [62]: MATR1
```

```
Out[62]: array([[ 0,  1,  2,  3],
               [ 4,  5,  6,  7],
               [ 8,  9, 10, 11],
               [12, 13, 14, 15],
               [16, 17, 18, 19]])
```

```
In [63]: MATR2
```

```
Out[63]: array([[ 0,  5, 10, 15],
               [ 1,  6, 11, 16],
               [ 2,  7, 12, 17],
               [ 3,  8, 13, 18],
               [ 4,  9, 14, 19]])
```

```
In [64]: a1=['welcome','to','datascience']
         a2=['required','hard','work']
         a3=[1,2,3]
```

```
In [65]: [a1,a2,a3]
```

```
Out[65]: [['welcome', 'to', 'datascience'], ['required', 'hard', 'work'], [1, 2, 3]]
```

```
In [66]: np.array([1,2,3])
```

```
Out[66]: array([1, 2, 3])
```

```
In [67]: Games
```

```
Out[67]: 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 [68]: Games[0]
```

```
Out[68]: array([80, 77, 82, 82, 73, 82, 58, 78,  6, 35])
```

```
In [69]: Games[0:5]
```

```
Out[69]: 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 [70]: Games[0,5]
```

```
Out[70]: np.int64(82)
```

```
In [71]: Games[0,2]
```

```
Out[71]: np.int64(82)
```

```
In [72]: Games
```

```
Out[72]: 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 [73]: Games[0:2]
```

```
Out[73]: array([[80, 77, 82, 82, 73, 82, 58, 78,  6, 35],
                [82, 57, 82, 79, 76, 72, 60, 72, 79, 80]])
```

```
In [74]: Games[-3:-1]
```

```
Out[74]: array([[35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
                [40, 40, 40, 81, 78, 81, 39,  0, 10, 51]])
```

```
In [75]: Games[-3,-1]
```

```
Out[75]: np.int64(27)
```

```
In [76]: Points
```

```
Out[76]: 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 [77]: Points[0]
```

```
Out[77]: array([2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,  83, 782])
```

```
In [78]: Points[6,1]
```

```
Out[78]: np.int64(1104)
```

```
In [79]: Points[3:6]
```

```
Out[79]: array([[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]])
```

```
In [80]: Points[-6,-1]
```

```
Out[80]: np.int64(646)
```

```
In [81]: dict1={'key1':'val1','key2':'val2','key3':'val3'}
```

```
In [82]: dict1
```

```
Out[82]: {'key1': 'val1', 'key2': 'val2', 'key3': 'val3'}
```

```
In [83]: dict1['key2']
```

```
Out[83]: 'val2'
```

```
In [84]: dict2={'bang':2,'hyd':'we are hear','pune':True}
```

```
In [85]: dict2
```

```
Out[85]: {'bang': 2, 'hyd': 'we are hear', 'pune': True}
```

```
In [86]: dict3={'Germany':'I have been here','France':2,'Spain':True}
```

```
In [87]: dict3
```

```
Out[87]: {'Germany': 'I have been here', 'France': 2, 'Spain': True}
```

```
In [89]: dict3['Germany']
```

```
Out[89]: 'I have been here'
```

```
In [90]: Games
```

```
Out[90]: 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]: Sdict
```

```
Out[10]: {'2015': 0,
          '2016': 1,
          '2017': 2,
          '2018': 3,
          '2019': 4,
          '2020': 5,
          '2021': 6,
          '2022': 7,
          '2023': 8,
          '2024': 9}
```

```
In [11]: Pdict
```

```
Out[11]: {'Sachin': 0,
          'Rahul': 1,
          'Smith': 2,
          'Sami': 3,
          'Pollard': 4,
          'Morris': 5,
          'Samson': 6,
          'Dhoni': 7,
          'Kohli': 8,
          'Sky': 9}
```

```
In [91]: Pdict['Sachin']
```

```
Out[91]: 0
```

Games

```
In [93]: Games[Pdict['Rahul']]
```

```
Out[93]: array([82, 57, 82, 79, 76, 72, 60, 72, 79, 80])
```

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

```
Out[12]: array([70, 69, 67, 77, 70, 77, 57, 74, 79, 44])
```

```
In [13]: Games[[5,3]]
```

```
Out[13]: array([[70, 69, 67, 77, 70, 77, 57, 74, 79, 44],
                [80, 65, 77, 66, 69, 77, 55, 67, 77, 40]])
```

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

```
Out[14]: array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
                25244493, 27849149, 30453805, 23500000])
```

```
In [15]: Games[0]
```

```
Out[15]: array([80, 77, 82, 82, 73, 82, 58, 78, 6, 35])
```

```
In [16]: Salary[0]/Games[0]
```

```
Out[16]: array([ 199335.9375, 230113.63636364, 237690.54878049,
                259298.7804878, 315539.38356164, 302515.24390244,
                435249.87931034, 357040.37179487, 5075634.16666667,
                671428.57142857])
```



```
In [94]: Salary[2,4]
```

```
Out[94]: np.int64(15779912)
```

```
In [95]: Salary[Pdict['Sky']][Sdict['2019']]
```

```
Out[95]: np.int64(15779912)
```

```
In [96]: Salary/Games
```

```
Out[96]: 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,  300455.55555556,  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,
                  179325.84615385,      inf, 1763268.8      ,
                  369860.29411765],
                 [   40425.6      ,   75322.41176471,  255710.78431373,
                  182412.41772152,  204933.92207792,  186842.10526316,
                  320224.48979592,  249014.49275362,  345796.2962963 ,
                  241935.48387097]])
```

```
In [17]: np.round(Salary[0]/Games[0])
```

```
Out[17]: array([ 199336.,  230114.,  237691.,  259299.,  315539.,  302515.,
                  435250.,  357040.,  5075634.,  671429.])
```

visualie the data

```
In [18]: import warnings
warnings.filterwarnings('ignore')

#to ignore unwanted errors from we should write the code as ignore all
```

```
In [19]: import matplotlib.pyplot as plt
```

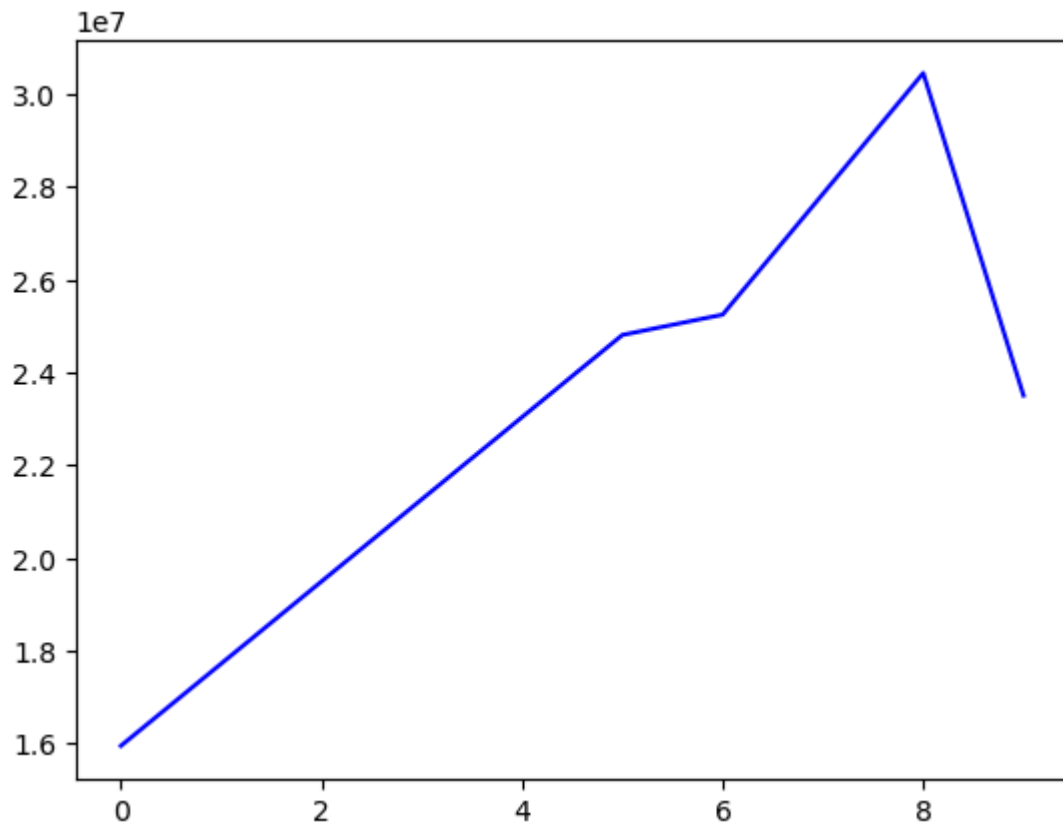
```
In [20]: Salary[0]
```

```
Out[20]: array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
                25244493, 27849149, 30453805, 23500000])
```

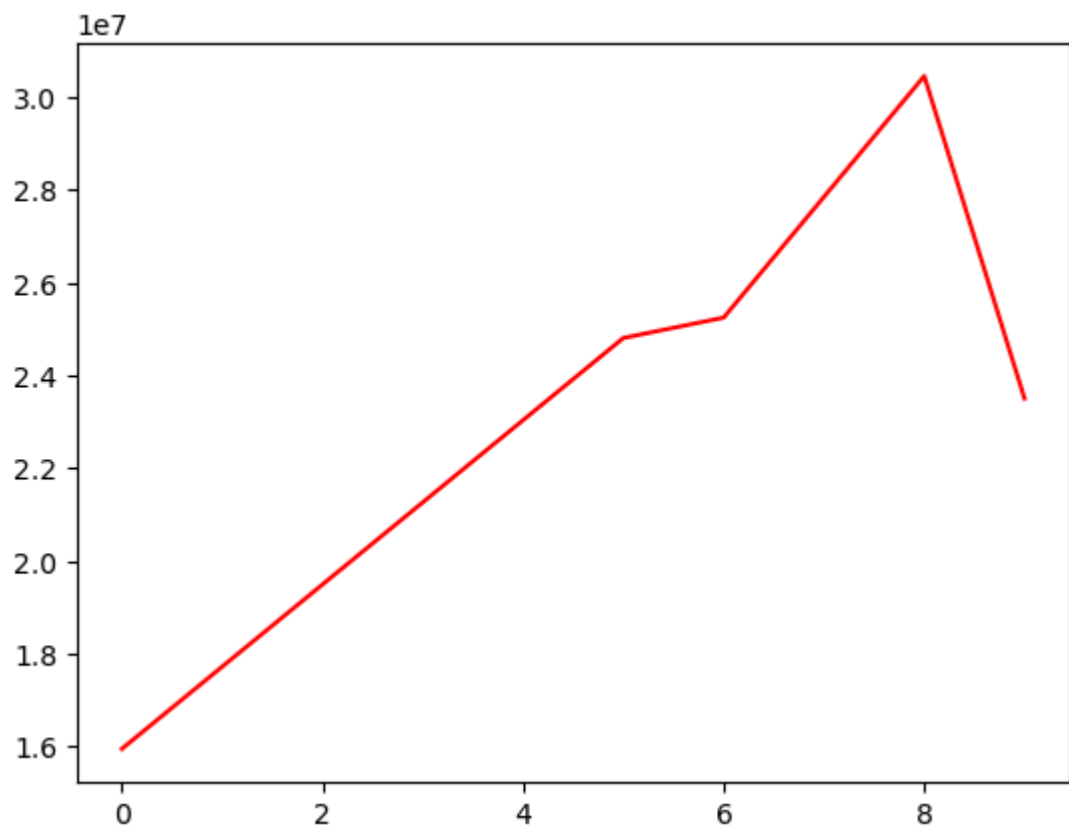
```
In [97]: plt.plot(Salary[0])
```

```
Out[97]: [<matplotlib.lines.Line2D at 0x1b9d2e4b9d0>]
```

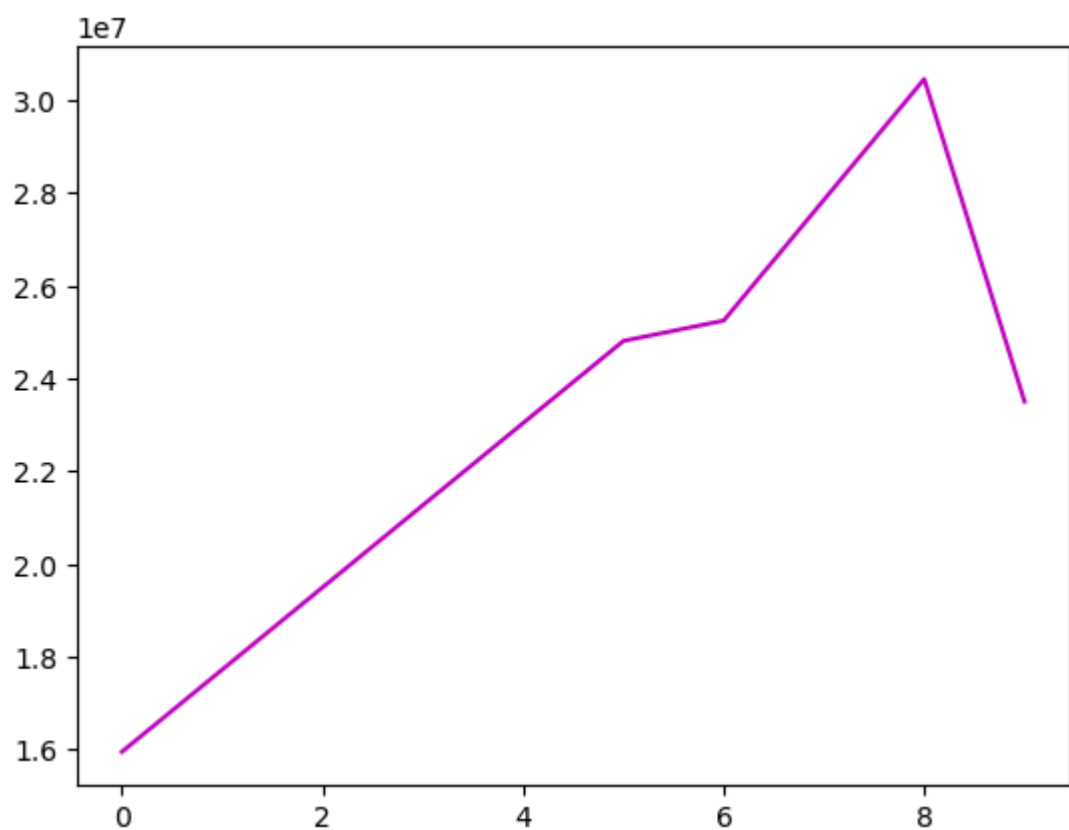
```
In [21]: plt.plot(Salary[0], color="blue")
plt.show()
```



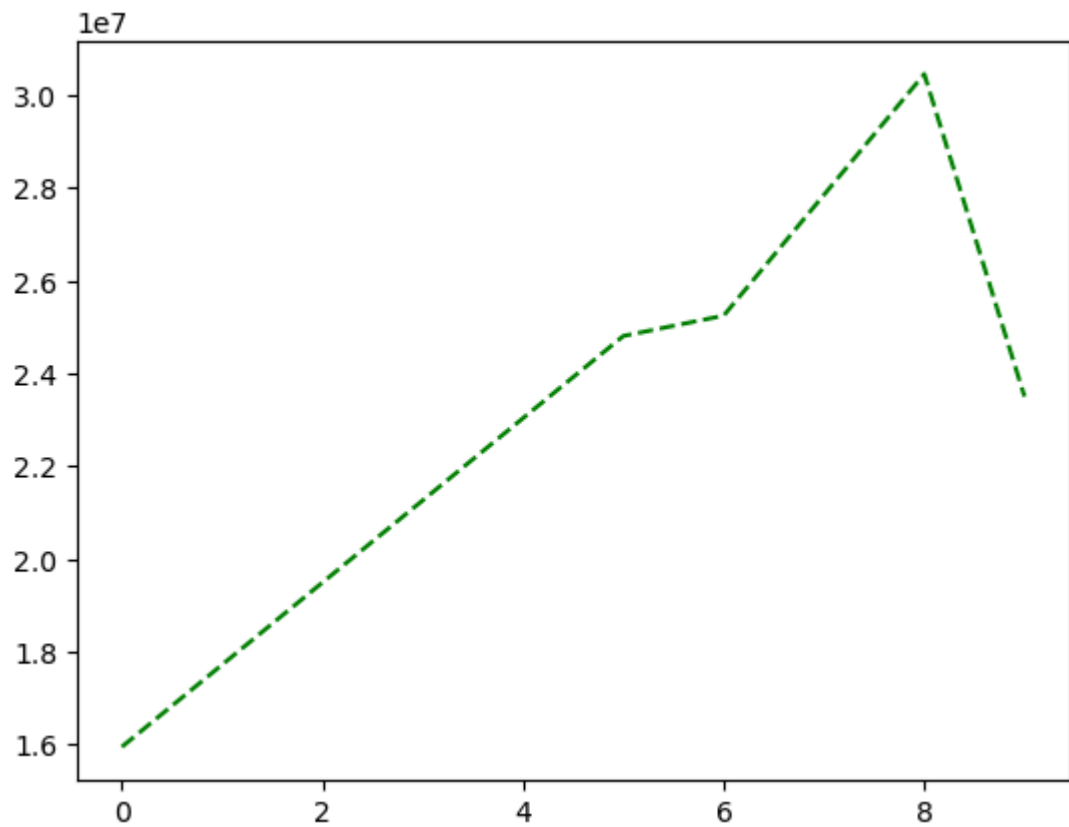
```
In [22]: plt.plot(Salary[0], c="r")
plt.show()
```



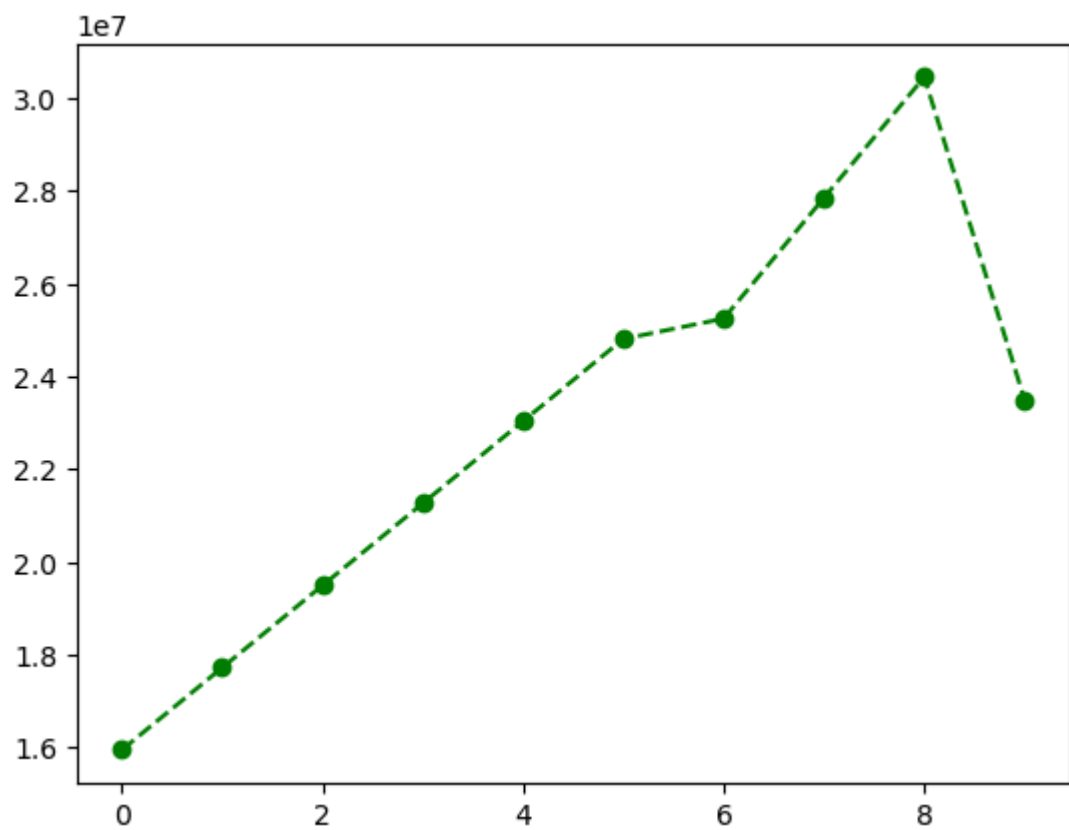
```
In [23]: plt.plot(Salary[0], c="m")  
plt.show()
```



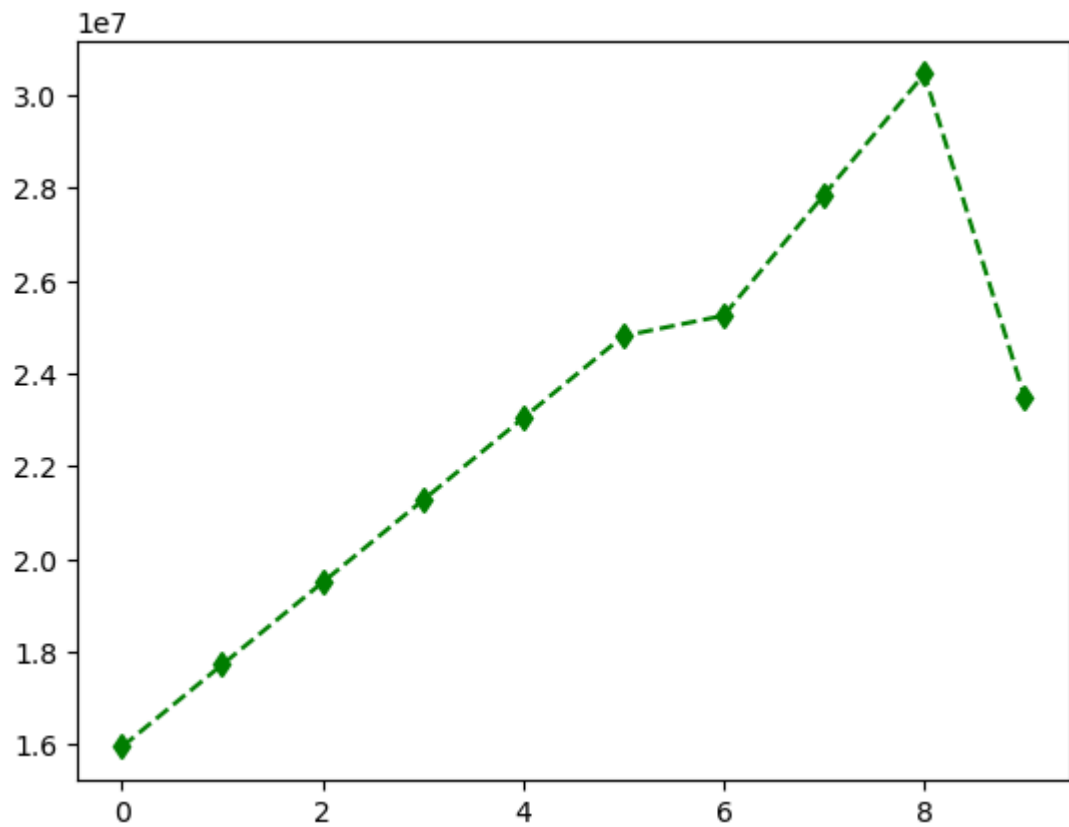
```
In [24]: plt.plot(Salary[0], c="g", ls='--')  
plt.show()
```



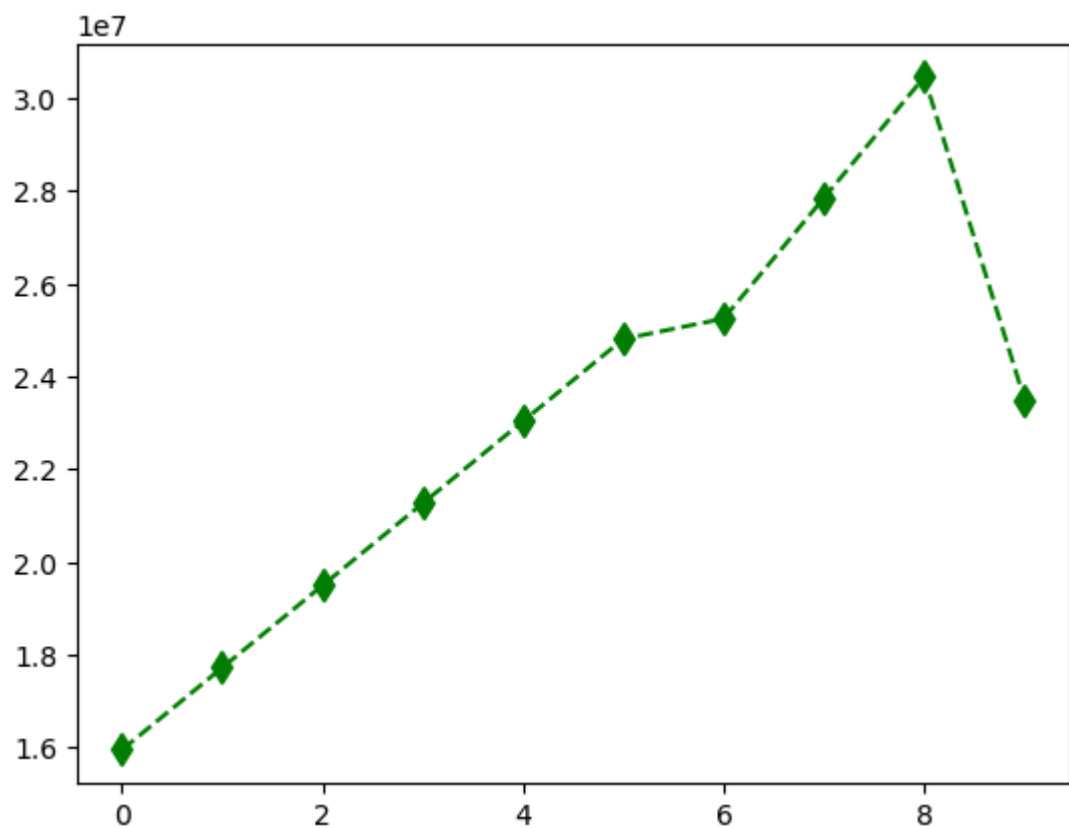
```
In [25]: plt.plot(Salary[0], c="g",ls='--',marker='o')
plt.show()
```



```
In [26]: plt.plot(Salary[0], c="g",ls='--',marker='d')
plt.show()
```



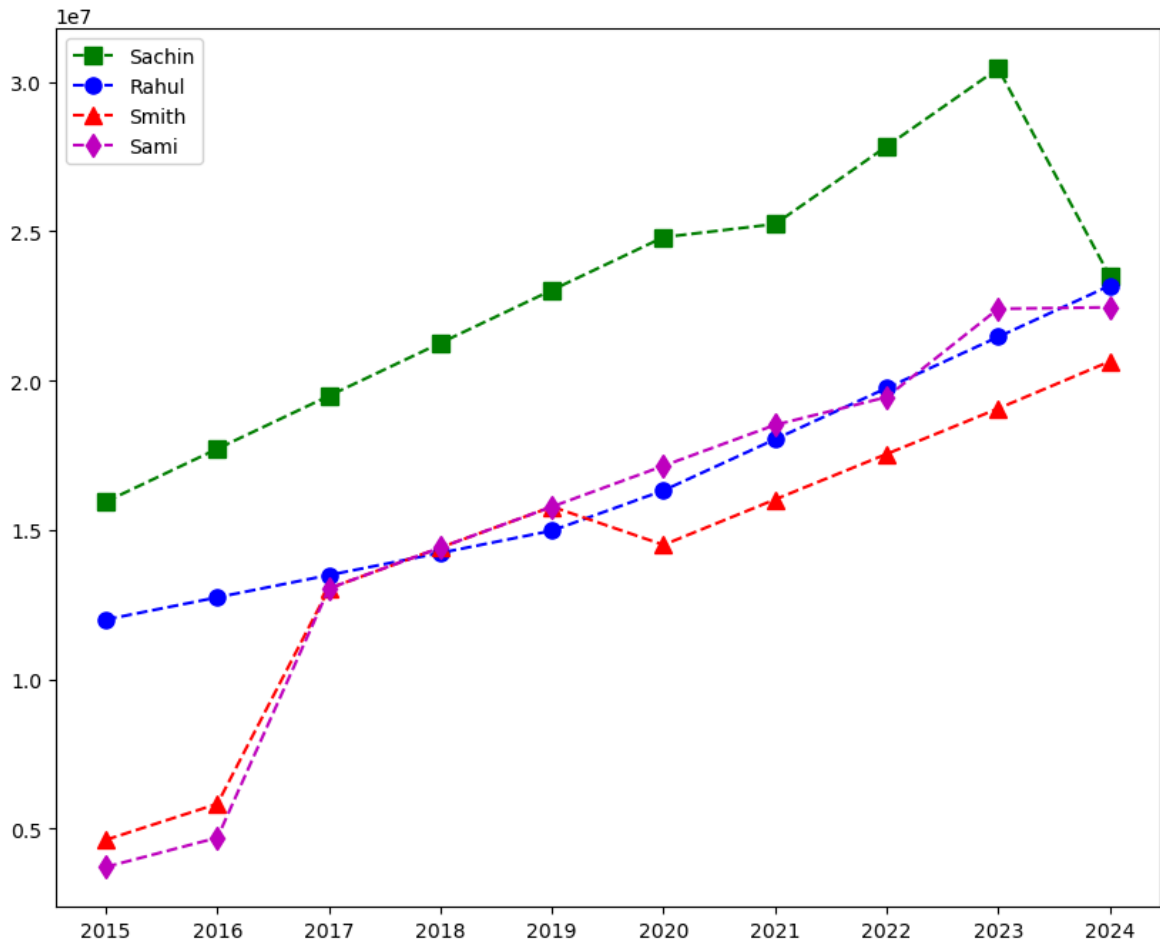
```
In [27]: plt.plot(Salary[0], c="g",ls='--',marker='d',ms=8)
plt.show()
```



```
In [99]: %matplotlib inline
plt.rcParams['figure.figsize']=10,8
```

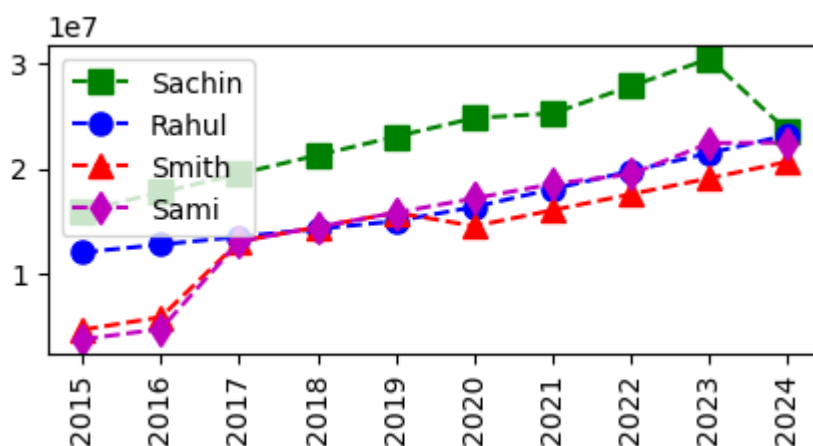
In [100...

```
plt.plot(Salary[0], c="g",ls='--',marker='s',ms=8,label=Players[0])
plt.plot(Salary[1], c="b",ls='--',marker='o',ms=8,label=Players[1])
plt.plot(Salary[2], c="r",ls='--',marker='^',ms=8,label=Players[2])
plt.plot(Salary[3], c="m",ls='--',marker='d',ms=8,label=Players[3])
plt.xticks(list(range(0,10)),Seasons)
plt.legend()
plt.show()
```



In [30]:

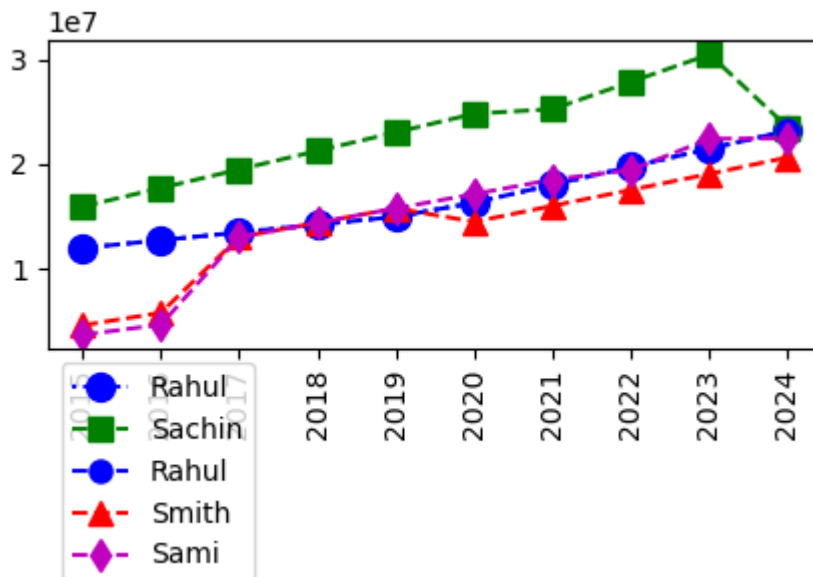
```
plt.plot(Salary[0], c="g",ls='--',marker='s',ms=8,label=Players[0])
plt.plot(Salary[1], c="b",ls='--',marker='o',ms=8,label=Players[1])
plt.plot(Salary[2], c="r",ls='--',marker='^',ms=8,label=Players[2])
plt.plot(Salary[3], c="m",ls='--',marker='d',ms=8,label=Players[3])
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.legend()
plt.show()
```



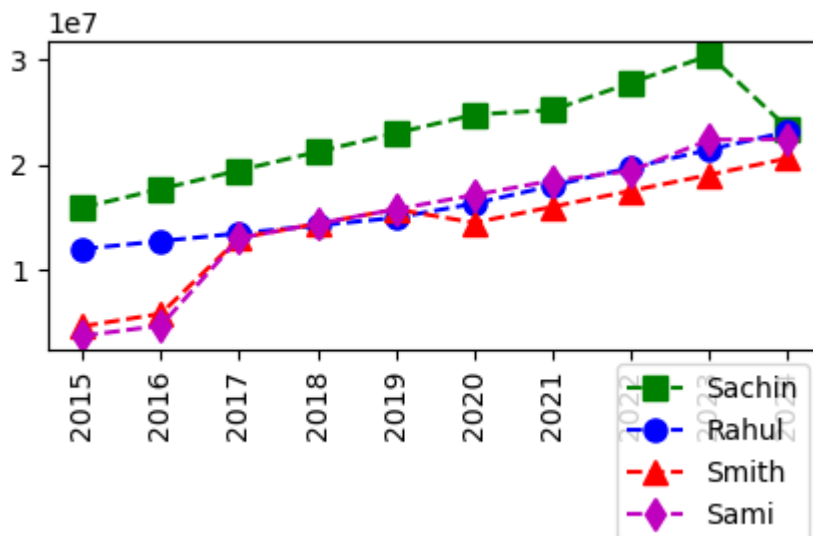
```
In [31]: plt.plot(Salary[1], c="b",ls=':',marker='o',ms=10,label=Players[1])
```

```
Out[31]: [<matplotlib.lines.Line2D at 0x1b9d0761f90>]
```

```
In [32]: plt.plot(Salary[0], c="g",ls='--',marker='s',ms=8,label=Players[0])
plt.plot(Salary[1], c="b",ls='--',marker='o',ms=8,label=Players[1])
plt.plot(Salary[2], c="r",ls='--',marker='^',ms=8,label=Players[2])
plt.plot(Salary[3], c="m",ls='--',marker='d',ms=8,label=Players[3])
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.legend(loc='upper left',bbox_to_anchor=(0,0))
plt.show()
```

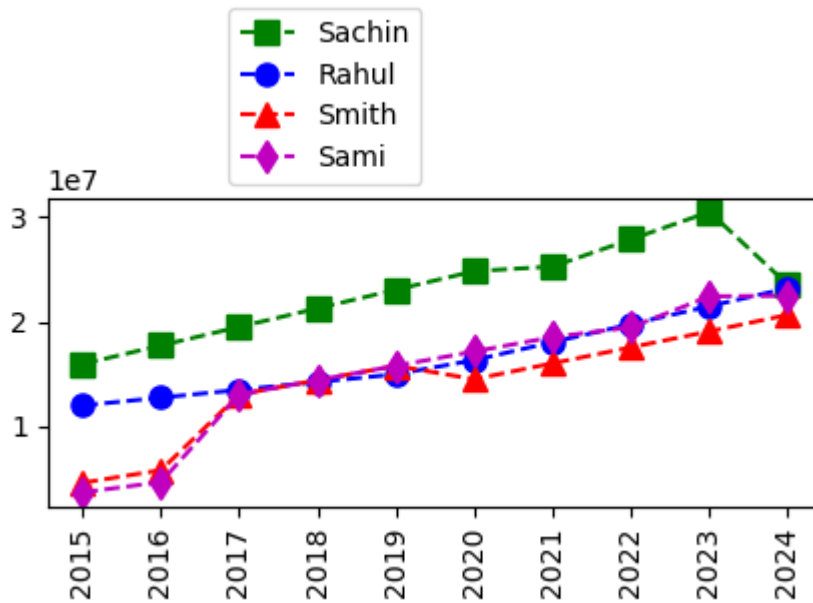


```
In [33]: plt.plot(Salary[0], c="g",ls='--',marker='s',ms=8,label=Players[0])
plt.plot(Salary[1], c="b",ls='--',marker='o',ms=8,label=Players[1])
plt.plot(Salary[2], c="r",ls='--',marker='^',ms=8,label=Players[2])
plt.plot(Salary[3], c="m",ls='--',marker='d',ms=8,label=Players[3])
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.legend(loc='upper right',bbox_to_anchor=(1,0))
plt.show()
```



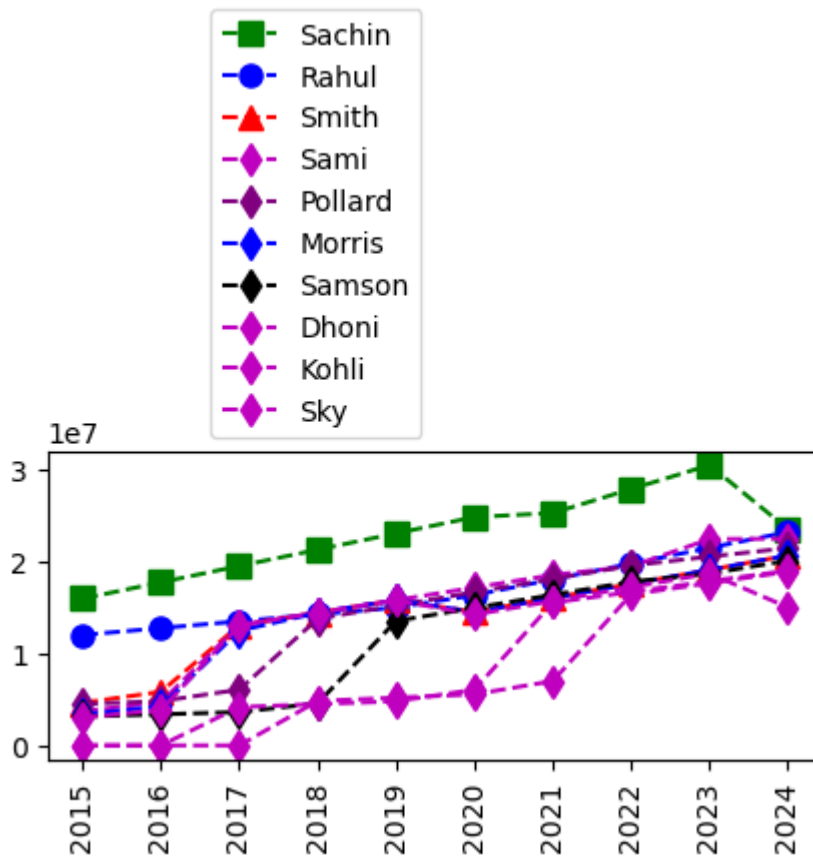
```
In [34]: plt.plot(Salary[0], c="g",ls='--',marker='s',ms=8,label=Players[0])
plt.plot(Salary[1], c="b",ls='--',marker='o',ms=8,label=Players[1])
plt.plot(Salary[2], c="r",ls='--',marker='^',ms=8,label=Players[2])
```

```
plt.plot(Salary[3], c="m",ls='--',marker='d',ms=8,label=Players[3])
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.legend(loc='lower right',bbox_to_anchor=(0.5,1))
plt.show()
```

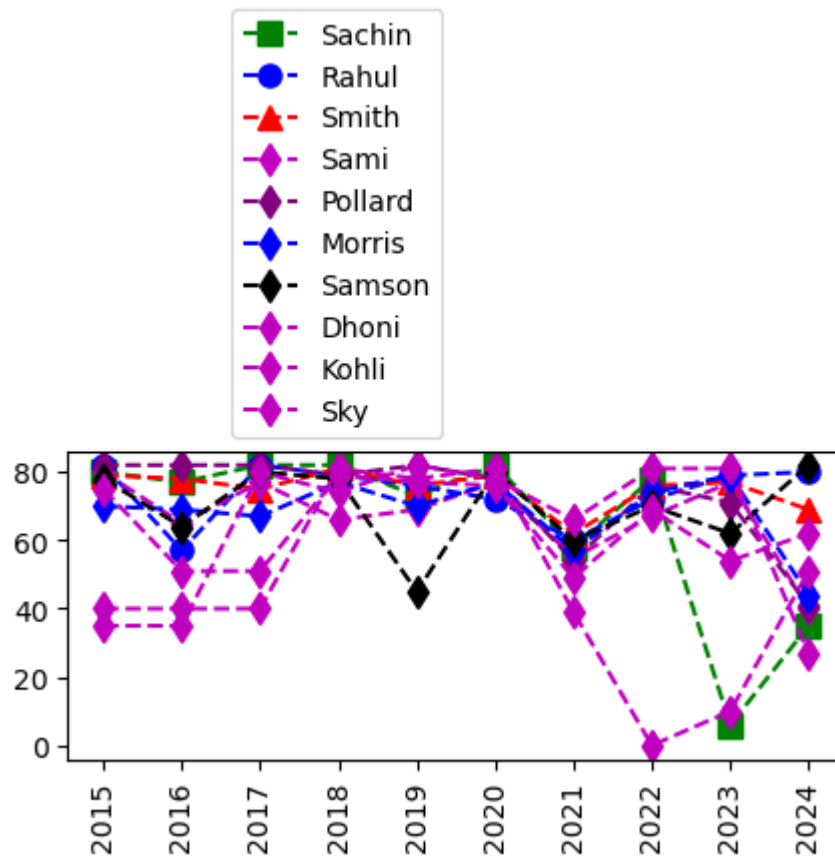


```
In [35]: plt.plot(Salary[0], c="g",ls='--',marker='s',ms=8,label=Players[0])
plt.plot(Salary[1], c="b",ls='--',marker='o',ms=8,label=Players[1])
plt.plot(Salary[2], c="r",ls='--',marker='^',ms=8,label=Players[2])
plt.plot(Salary[3], c="m",ls='--',marker='d',ms=8,label=Players[3])
plt.plot(Salary[4], c="Purple",ls='--',marker='d',ms=8,label=Players[4])
plt.plot(Salary[5], c="b",ls='--',marker='d',ms=8,label=Players[5])
plt.plot(Salary[6], c="Black",ls='--',marker='d',ms=8,label=Players[6])
plt.plot(Salary[7], c="m",ls='--',marker='d',ms=8,label=Players[7])
plt.plot(Salary[8], c="m",ls='--',marker='d',ms=8,label=Players[8])
plt.plot(Salary[9], c="m",ls='--',marker='d',ms=8,label=Players[9])
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.legend(loc='lower right',bbox_to_anchor=(0.5,1))
plt.show()
```

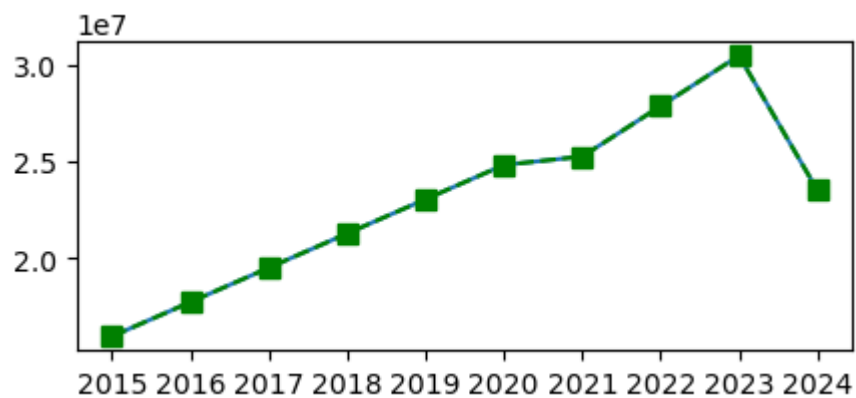




```
In [36]: plt.plot(Games[0], c="g",ls='--',marker='s',ms=8,label=Players[0])
plt.plot(Games[1], c="b",ls='--',marker='o',ms=8,label=Players[1])
plt.plot(Games[2], c="r",ls='--',marker='^',ms=8,label=Players[2])
plt.plot(Games[3], c="m",ls='--',marker='d',ms=8,label=Players[3])
plt.plot(Games[4], c="Purple",ls='--',marker='d',ms=8,label=Players[4])
plt.plot(Games[5], c="b",ls='--',marker='d',ms=8,label=Players[5])
plt.plot(Games[6], c="Black",ls='--',marker='d',ms=8,label=Players[6])
plt.plot(Games[7], c="m",ls='--',marker='d',ms=8,label=Players[7])
plt.plot(Games[8], c="m",ls='--',marker='d',ms=8,label=Players[8])
plt.plot(Games[9], c="m",ls='--',marker='d',ms=8,label=Players[9])
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.legend(loc='lower right',bbox_to_anchor=(0.5,1))
plt.show()
```



```
In [98]: plt.plot(Salary[0], c="g",ls='--',marker='s',ms=7)
plt.xticks(list(range(0,10)),Seasons,rotation='horizontal')
plt.show()
```



```
In [ ]:
```