```
import numpy as np
In [1]:
        #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
        #PLavers
         Players = ["Sachin", "Rahul", "Smith", "Sami", "Pollard", "Morris", "Samson", "Dhoni", "Kohli'
         Pdict = {"Sachin":0, "Rahul":1, "Smith":2, "Sami":3, "Pollard":4, "Morris":5, "Samson":6, "Dr
        #Salaries
         Sachin Salary = [15946875,17718750,19490625,21262500,23034375,24806250,25244493,278491
         Rahul_Salary = [12000000,12744189,13488377,14232567,14976754,16324500,18038573,1975264
         Smith_Salary = [4621800,5828090,13041250,14410581,15779912,14500000,16022500,17545000,
         Sami Salary = [3713640,4694041,13041250,14410581,15779912,17149243,18518574,19450000,2
         Pollard Salary = [4493160,4806720,6061274,13758000,15202590,16647180,18091770,19536360]
        Morris Salary = [3348000,4235220,12455000,14410581,15779912,14500000,16022500,17545000
         Samson_Salary = [3144240,3380160,3615960,4574189,13520500,14940153,16359805,17779458,1
        Dhoni_Salary = [0,0,4171200,4484040,4796880,6053663,15506632,16669630,17832627,1899562
         Kohli Salary = [0,0,0,4822800,5184480,5546160,6993708,16402500,17632688,18862875]
         Sky Salary = [3031920,3841443,13041250,14410581,15779912,14200000,15691000,17182000,18
         #Matrix
         Salary = np.array([Sachin_Salary, Rahul_Salary, Smith_Salary, Sami_Salary, Pollard_Sal
         #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, Samson_G, D
         #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, Morris_PTS
In [2]:
        Salary
```

localhost:8889/nbconvert/html/IPL DATA ANALYSIS.ipynb?download=false

9/10/24, 10:28 AM

```
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,
                15506632, 16669630, 17832627, 18995624],
                                           0, 4822800, 5184480,
                                 0,
                 6993708, 16402500, 17632688, 18862875],
                [ 3031920, 3841443, 13041250, 14410581, 15779912, 14200000,
                15691000, 17182000, 18673000, 15000000]])
In [3]: Games
        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
        array([[2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
Out[4]:
                [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 [5]:
        Games[5]
        array([70, 69, 67, 77, 70, 77, 57, 74, 79, 44])
Out[5]:
In [6]:
        Games[0:5]
        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]])
        Games[0,5]
In [7]:
```

```
Out[7]:
         Games [0,2]
In [8]:
Out[8]:
         Games
In [9]:
         array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35],
Out[9]:
                 [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]: Games[1:2]
         array([[82, 57, 82, 79, 76, 72, 60, 72, 79, 80]])
Out[10]:
         Games
In [11]:
         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 [12]:
         Games[-3:-1]
         array([[35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
Out[12]:
                [40, 40, 40, 81, 78, 81, 39, 0, 10, 51]])
         Games[-3,-1]
In [13]:
Out[13]:
         Points
In [14]:
         array([[2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
                                                                    83, 782],
Out[14]:
                 [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,
                                                                        904],
                                                               0, 159,
                [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]])
```

```
Games
In [15]:
         array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35],
Out[15]:
                 [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 [16]:
          Pdict
         {'Sachin': 0,
Out[16]:
           'Rahul': 1,
           'Smith': 2,
           'Sami': 3,
           'Pollard': 4,
           'Morris': 5,
           'Samson': 6,
           'Dhoni': 7,
           'Kohli': 8,
           'Sky': 9}
          Pdict['Sachin']
In [17]:
Out[17]:
         Games[Pdict['Sachin']]
In [18]:
         array([80, 77, 82, 82, 73, 82, 58, 78, 6, 35])
Out[18]:
          Games
In [19]:
         array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35],
Out[19]:
                 [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]])
         Games[Pdict['Rahul']]
In [20]:
         array([82, 57, 82, 79, 76, 72, 60, 72, 79, 80])
Out[20]:
          Points
In [21]:
```

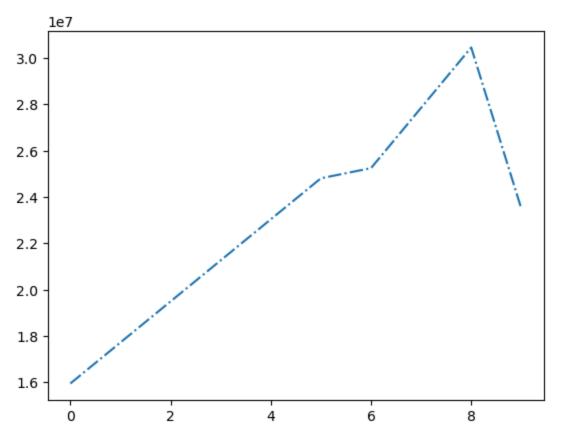
```
array([[2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
Out[21]:
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                [2478, 2132, 2250, 2304, 2258, 2111, 1683, 2036, 2089, 1743],
                [2122, 1881, 1978, 1504, 1943, 1970, 1245, 1920, 2112, 966],
                [1292, 1443, 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, 1361, 1619, 2026, 852,
                [ 597,
                                                               0, 159,
                                                                        904],
                [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]])
In [22]:
         Salary
         array([[15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
Out[22]:
                 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, 4822800, 5184480,
                        0,
                                  0,
                                                                     5546160,
                  6993708, 16402500, 17632688, 18862875],
                [ 3031920, 3841443, 13041250, 14410581, 15779912, 14200000,
                 15691000, 17182000, 18673000, 15000000]])
In [23]:
         Games
         array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35],
Out[23]:
                [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]])
         Salary/Games
In [24]:
         C:\Users\nithi\AppData\Local\Temp\ipykernel_36140\3709746658.py:1: RuntimeWarning: di
         vide by zero encountered in divide
           Salary/Games
```

```
237690.54878049,
         array([[ 199335.9375
                                     230113.63636364,
Out[24]:
                                     315539.38356164, 302515.24390244,
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                   435249.87931034,
                                     357040.37179487, 5075634.16666667,
                   671428.57142857],
                 [ 146341.46341463,
                                     223582.26315789,
                                                        164492.40243902,
                   180159.07594937,
                                     197062.55263158,
                                                        226729.16666667,
                   300642.883333333,
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                                                        271730.60759494,
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                   58503.79746835,
                                      74719.1025641 ,
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                                     207630.42105263,
                                                        183544.30379747,
                   258427.41935484,
                                     230855.26315789,
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                 [ 46420.5
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                  561450.
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                                     185397.43902439,
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                 [ 47828.57142857,
                                      61380.
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                                     237094.59459459,
                                                        241360.75949367,
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                                     253992.25714286,
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                   244738.57317073],
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                                                         52140.
                                          0.
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                                                        220155.88888889,
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                                                         68471.11111111,
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                                                 inf, 1763268.8
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                                                        255710.78431373,
                 [ 40425.6
                   182412.41772152,
                                     204933.92207792,
                                                        186842.10526316,
                   320224.48979592,
                                     249014.49275362,
                                                       345796.2962963,
                   241935.48387097]])
```

## In [25]: np.round(Salary/Games)

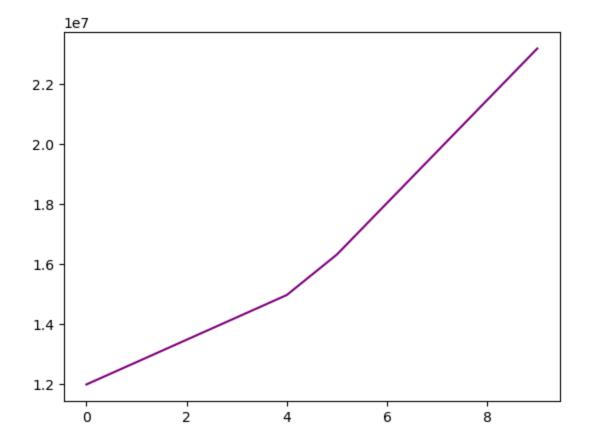
C:\Users\nithi\AppData\Local\Temp\ipykernel\_36140\3232172828.py:1: RuntimeWarning: di vide by zero encountered in divide np.round(Salary/Games)

```
array([[ 199336., 230114., 237691.,
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                                                                    302515.,
Out[25]:
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                                                671429.],
                [ 146341., 223582.,
                                                180159., 197063.,
                                     164492.,
                                                                    226729.,
                  300643., 274342.,
                                      271731.,
                                                289760.],
                            74719.,
                                      173883.,
                                                177908.,
                                                          207630.,
                                                                    183544.,
                [ 58504.,
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                                      247630.,
                                                299194.],
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                                      169367.,
                                                218342.,
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                                      291006.,
                                                561450.],
                  54795.,
                             58619.,
                                      73918.,
                                                174152., 185397.,
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                  335033., 257057., 288918.,
                                                522836.],
                [ 47829.,
                             61380.,
                                      185896.,
                                                187150.,
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                                                                    188312.,
                  281096.,
                           237095.,
                                      241361.,
                                                469191.],
                [ 40311.,
                             52815.,
                                      45200.,
                                                 58643.,
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                                                                    186752.,
                  272663., 253992.,
                                      301104., 244739.],
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                                       52140.,
                                                 60595.,
                                                           58499.,
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                                               703542.],
                       0.,
                                 0.,
                                           0.,
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                                                           66468.,
                                                                     68471.,
                                inf, 1763269.,
                  179326.,
                                                369860.],
                [ 40426.,
                             75322., 255711., 182412., 204934.,
                                                                    186842.,
                  320224., 249014., 345796., 241935.]])
In [26]:
         import warnings
         warnings.filterwarnings('ignore')
In [ ]:
         import matplotlib.pyplot as plt
         %matplotlib inline #keep the plot inside jupyter nots instead of getting in other scre
In [28]:
         UsageError: unrecognized arguments: #keep the plot inside jupyter nots instead of get
         ting in other screen
In [ ]:
         Salary
In [ ]:
         Salary[0]
         plt.plot(Salary[0], color = 'black', ls = '--')
In [ ]:
         Games
In [29]:
         plt.plot(Salary[0], ls = '-.')
         [<matplotlib.lines.Line2D at 0x202eaf13a50>]
Out[29]:
```



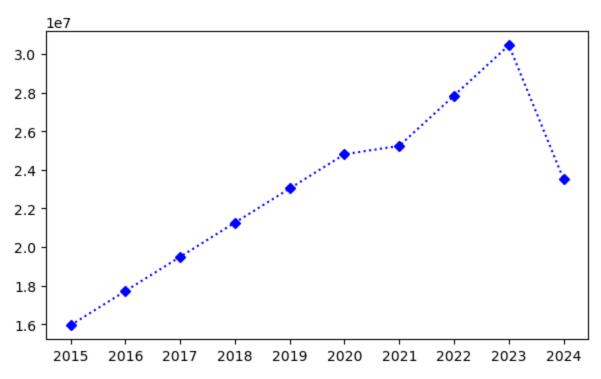
In [30]: plt.plot(Salary[1], color = 'purple', ls = '-')

Out[30]: [<matplotlib.lines.Line2D at 0x202eb77dd90>]

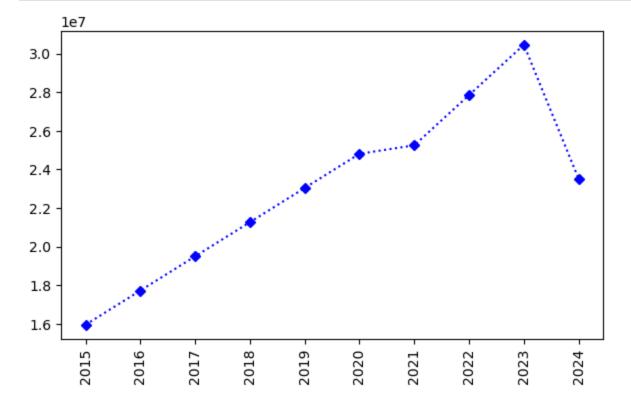


```
In [31]:
         %matplotlib inline
          plt.rcParams['figure.figsize'] = 7,3
                                                         # width, height
         plt.plot(Salary[0], color = 'blue', ls = ':', marker = 'o')
In [32]:
         [<matplotlib.lines.Line2D at 0x202eaef1ed0>]
Out[32]:
               1e7
          3.0
          2.8
          2.6
          2.4
          2.2
          2.0
          1.8
          1.6
                  0
                                  2
                                                 4
                                                                 6
                                                                                 8
         plt.plot(Salary[0], color = 'blue', ls = ':', marker = 'D')
In [33]:
         [<matplotlib.lines.Line2D at 0x202eafedd90>]
Out[33]:
               1e7
          3.0
          2.8
          2.6
          2.4
          2.2
          2.0
          1.8
          1.6
                                  2
                  0
                                                                 6
                                                                                 8
                                                 4
         %matplotlib inline
In [34]:
          plt.rcParams['figure.figsize'] = 7,4
         plt.plot(Salary[0], color = 'blue', ls = ':', marker = 'D', ms =5)
In [35]:
                                                                                   # ms = marker s
         [<matplotlib.lines.Line2D at 0x202eb076e90>]
Out[35]:
```

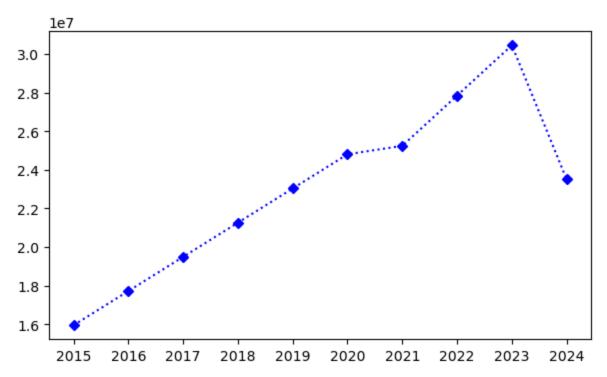
```
list(range(10))
In [36]:
         [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
Out[36]:
In [37]:
          Sdict
          {'2015': 0,
Out[37]:
           '2016': 1,
           '2017': 2,
           '2018': 3,
           '2019': 4,
           '2020': 5,
           '2021': 6,
           '2022': 7,
           '2023': 8,
           '2024': 9}
          plt.plot(Salary[0], color = 'blue', ls = ':', marker = 'D', ms =5)
In [38]:
          plt.xticks(list(range(0,10)),Seasons)
          plt.show()
```



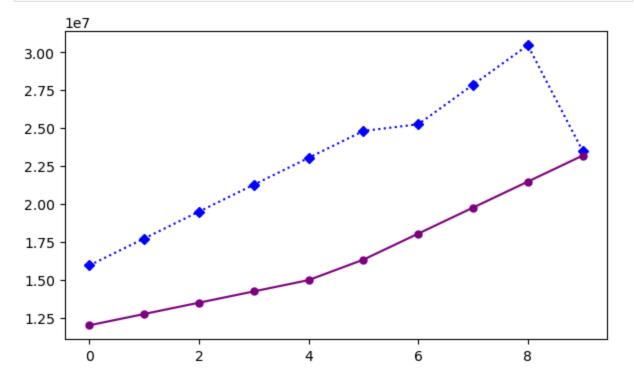
In [39]: plt.plot(Salary[0], color = 'blue', ls = ':', marker = 'D', ms =5)
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical')
plt.show()



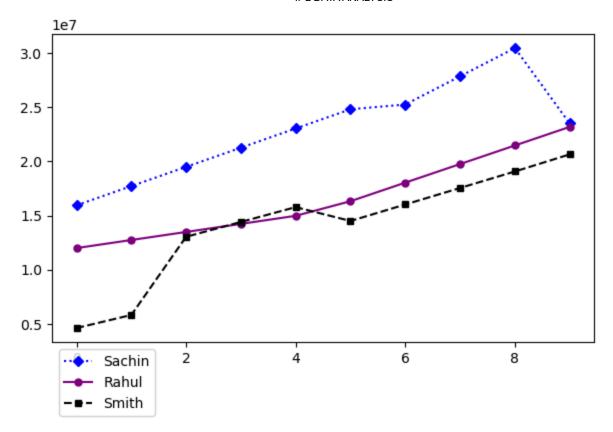
```
In [40]: plt.plot(Salary[0], color = 'blue', ls = ':', marker = 'D', ms =5, label = Players[0])
plt.xticks(list(range(0,10)), Seasons, rotation = 'horizontal')
plt.show()
```



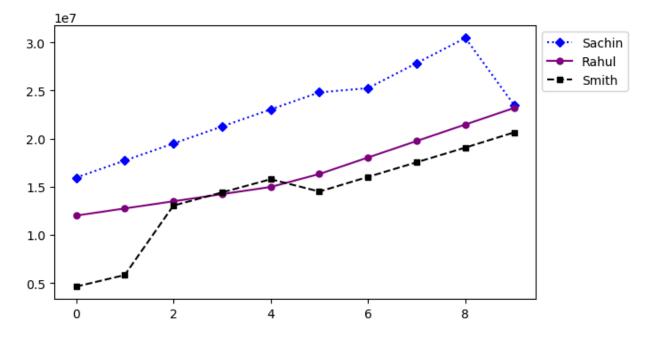
In [41]: plt.plot(Salary[0], color = 'blue', ls = ':', marker = 'D', ms =5, label = Players[0])
plt.plot(Salary[1], color = 'purple', ls = '-', marker = 'o', ms =5, label = Players[1
plt.show()



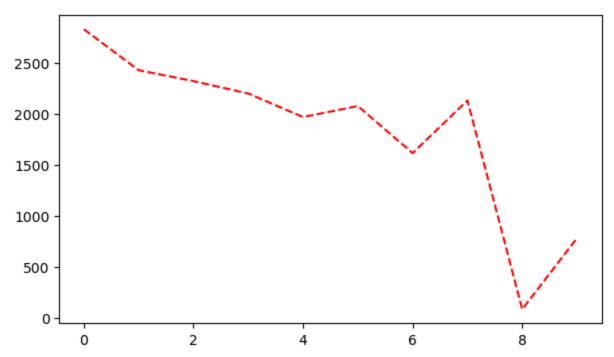
In [42]: plt.plot(Salary[0], color = 'blue', ls = ':', marker = 'D', ms =5, label = Players[0])
plt.plot(Salary[1], color = 'purple', ls = '-', marker = 'o', ms =5, label = Players[1
plt.plot(Salary[2], color = 'black', ls = '--', marker = 's', ms =5, label = Players[2
plt.legend(loc = 'upper left', bbox\_to\_anchor=(0,0))
plt.show()



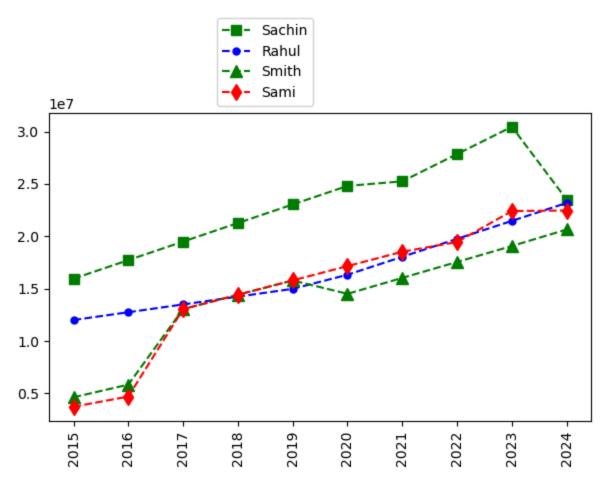
```
In [43]: plt.plot(Salary[0], color = 'blue', ls = ':', marker = 'D', ms =5, label = Players[0])
plt.plot(Salary[1], color = 'purple', ls = '-', marker = 'o', ms =5, label = Players[1
plt.plot(Salary[2], color = 'black', ls = '--', marker = 's', ms =5, label = Players[2
plt.legend(loc = 'upper left', bbox_to_anchor=(1,1))
plt.show()
```



```
In [44]: import matplotlib.pyplot as plt
In [45]: plt.plot(Points[0], color = 'RED', ls = '--')
Out[45]: [<matplotlib.lines.Line2D at 0x202eca90610>]
```



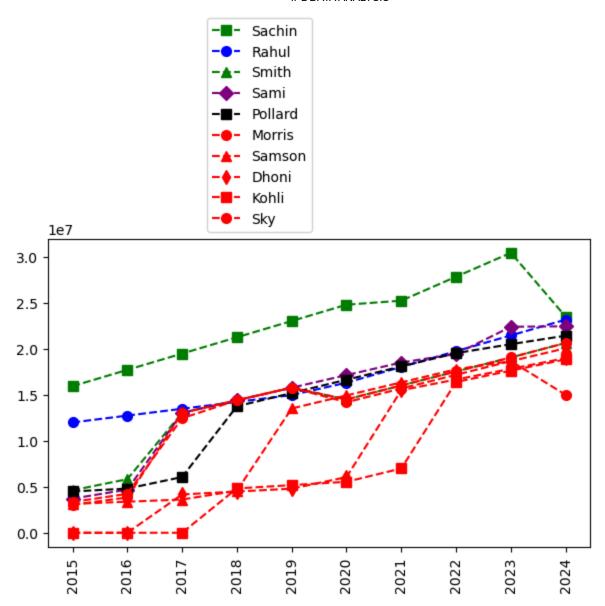
```
In [46]:
    plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[0])
    plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label = Players[1])
    plt.plot(Salary[2], c='Green', ls = '--', marker = '^', ms = 8, label = Players[2])
    plt.plot(Salary[3], c='Red', 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')
```



```
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 = 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 = 'A'', 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')
```

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In [49]: # 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[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.legend(loc = 'lower right', bbox\_to\_anchor=(0.5,1))
plt.xticks(list(range(0,10)), Seasons, rotation='vertical')

