IPL Data Analysis Projet

August 13, 2025

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

[2]:
```
#Seasons
Seasons =␣
↪["2010","2011","2012","2013","2014","2015","2016","2017","2018","2019"]
Sdict = {"2010":0,"2011":1,"2012":2,"2013":3,"2014":4,"2015":5,"2016":6,"2017":
↪7,"2018":8,"2019":9}

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

#Salaries
Sachin_Salary =␣
↪[15946875,17718750,19490625,21262500,23034375,24806250,25244493,27849149,30453805,23500000]
Rahul_Salary =␣
↪[12000000,12744189,13488377,14232567,14976754,16324500,18038573,19752645,21466718,23180790]
Smith_Salary =␣
↪[4621800,5828090,13041250,14410581,15779912,14500000,16022500,17545000,19067500,20644400]
Sami_Salary =␣
↪[3713640,4694041,13041250,14410581,15779912,17149243,18518574,19450000,22407474,22458000]
Pollard_Salary =␣
↪[4493160,4806720,6061274,13758000,15202590,16647180,18091770,19536360,20513178,21436271]
Morris_Salary =␣
↪[3348000,4235220,12455000,14410581,15779912,14500000,16022500,17545000,19067500,20644400]
Samson_Salary =␣
↪[3144240,3380160,3615960,4574189,13520500,14940153,16359805,17779458,18668431,20068563]
Dhoni_Salary =␣
↪[0,0,4171200,4484040,4796880,6053663,15506632,16669630,17832627,18995624]
Kohli_Salary =␣
↪[0,0,0,4822800,5184480,5546160,6993708,16402500,17632688,18862875]
Sky_Salary =␣
↪[3031920,3841443,13041250,14410581,15779912,14200000,15691000,17182000,18673000,15000000]
#Matrix
```

```
Salary = np.array([Sachin_Salary, Rahul_Salary, Smith_Salary, Sami_Salary,␣
 ↪Pollard_Salary, Morris_Salary, Samson_Salary, Dhoni_Salary, Kohli_Salary,␣
 ↪Sky_Salary])

#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, Dhoni_G, Kohli_G, Sky_G])

#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, Samson_PTS, Dhoni_PTS, Kohli_PTS, Sky_PTS])
```

[3]:
```
Seasons
```

[3]:
```
['2010',
 '2011',
 '2012',
 '2013',
 '2014',
 '2015',
 '2016',
 '2017',
 '2018',
 '2019']
```

[8]:
```
Salary
```

[8]:
```
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]])
```

[5]:
```
Games
```

[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]])
```

[10]:
```
Points
```

[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]])
```

[11]:
```
Pdict
```

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

[12]:
```
Salary/Games
```

```
/var/folders/w8/5124_l8n1md8s19brt04j5mr0000gn/T/ipykernel_62039/3709746658.py:1
: RuntimeWarning: divide by zero encountered in divide
  Salary/Games
```

[12]:
```
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]])
```

[13]:
```
Salary//Games
```

```
/var/folders/w8/5124_l8n1md8s19brt04j5mr0000gn/T/ipykernel_62039/1634212085.py:1
: RuntimeWarning: divide by zero encountered in floor_divide
  Salary//Games
```

[13]:
```
array([[ 199335,  230113,  237690,  259298,  315539,  302515,  435249,
         357040, 5075634,  671428],
       [ 146341,  223582,  164492,  180159,  197062,  226729,  300642,
         274342,  271730,  289759],
       [  58503,   74719,  173883,  177908,  207630,  183544,  258427,
         230855,  247629,  299194],
       [  46420,   72216,  169366,  218342,  228694,  222717,  336701,
         290298,  291006,  561450],
       [  54794,   58618,   73917,  174151,  185397,  213425,  335032,
         257057,  288918,  522835],
       [  47828,   61380,  185895,  187150,  225427,  188311,  281096,
         237094,  241360,  469190],
       [  40310,   52815,   45199,   58643,  300455,  186751,  272663,
         253992,  301103,  244738],
       [      0,       0,   52140,   60595,   58498,   77611,  234948,
         205797,  220155,  703541],
       [      0,       0,       0,   59540,   66467,   68471,  179325,
               0, 1763268,  369860],
       [  40425,   75322,  255710,  182412,  204933,  186842,  320224,
         249014,  345796,  241935]])
```

[14]:
```
np.round(Salary//Games)
```

```
/var/folders/w8/5124_l8n1md8s19brt04j5mr0000gn/T/ipykernel_62039/3663165759.py:1
: RuntimeWarning: divide by zero encountered in floor_divide
  np.round(Salary//Games)
```

[14]:
```
array([[ 199335,  230113,  237690,  259298,  315539,  302515,  435249,
         357040, 5075634,  671428],
       [ 146341,  223582,  164492,  180159,  197062,  226729,  300642,
         274342,  271730,  289759],
       [  58503,   74719,  173883,  177908,  207630,  183544,  258427,
         230855,  247629,  299194],
       [  46420,   72216,  169366,  218342,  228694,  222717,  336701,
         290298,  291006,  561450],
       [  54794,   58618,   73917,  174151,  185397,  213425,  335032,
         257057,  288918,  522835],
       [  47828,   61380,  185895,  187150,  225427,  188311,  281096,
         237094,  241360,  469190],
       [  40310,   52815,   45199,   58643,  300455,  186751,  272663,
         253992,  301103,  244738],
       [      0,       0,   52140,   60595,   58498,   77611,  234948,
         205797,  220155,  703541],
       [      0,       0,       0,   59540,   66467,   68471,  179325,
               0, 1763268,  369860],
       [  40425,   75322,  255710,  182412,  204933,  186842,  320224,
         249014,  345796,  241935]])
```

[15]:
```
import warnings
warnings.filterwarnings('ignore')
```

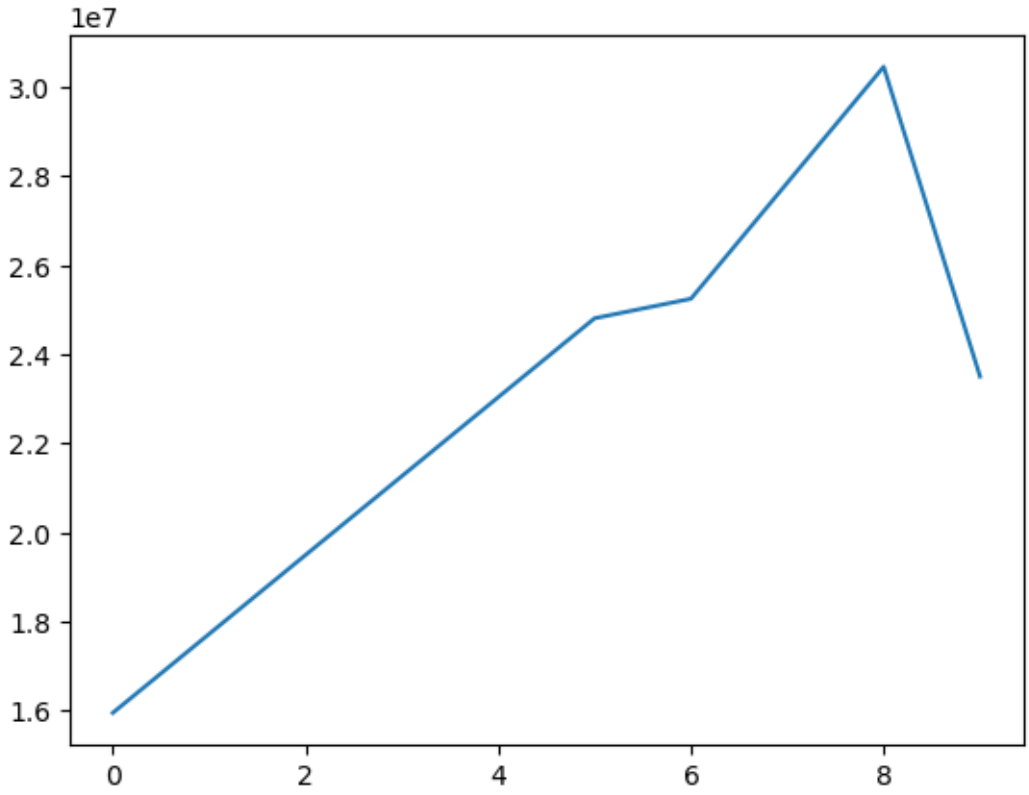
[16]:
```
import matplotlib.pyplot as plt
```

[17]:
```
Salary[0]
```

[17]:
```
array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
       25244493, 27849149, 30453805, 23500000])
```

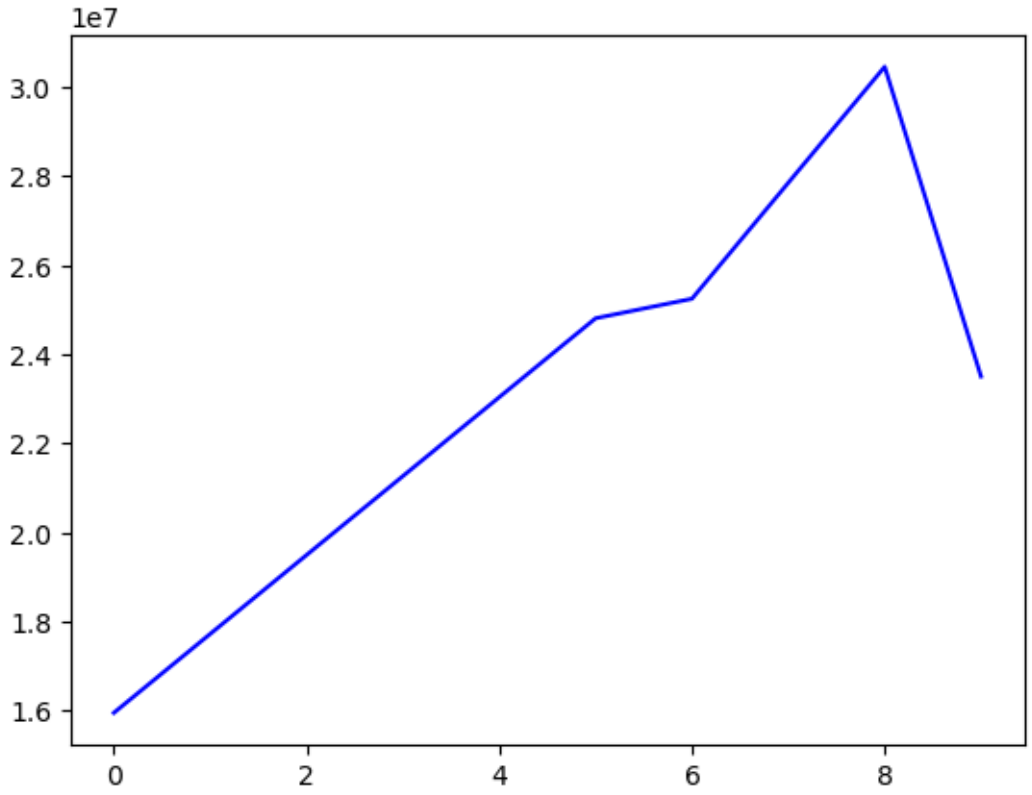
[18]:
```
plt.plot(Salary[0])
```

[18]:
```
[<matplotlib.lines.Line2D at 0x1366039d0>]
```



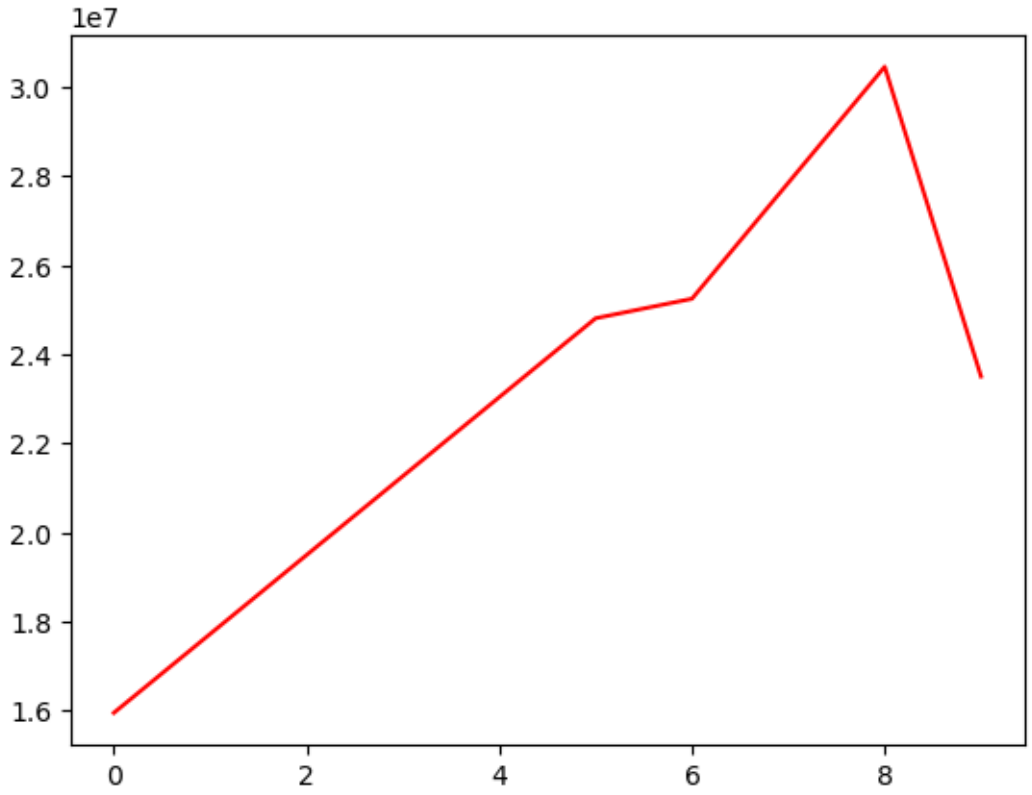
[19]:
```
plt.plot(Salary[0], c = 'b')
```

[19]: [<matplotlib.lines.Line2D at 0x136935a90>]



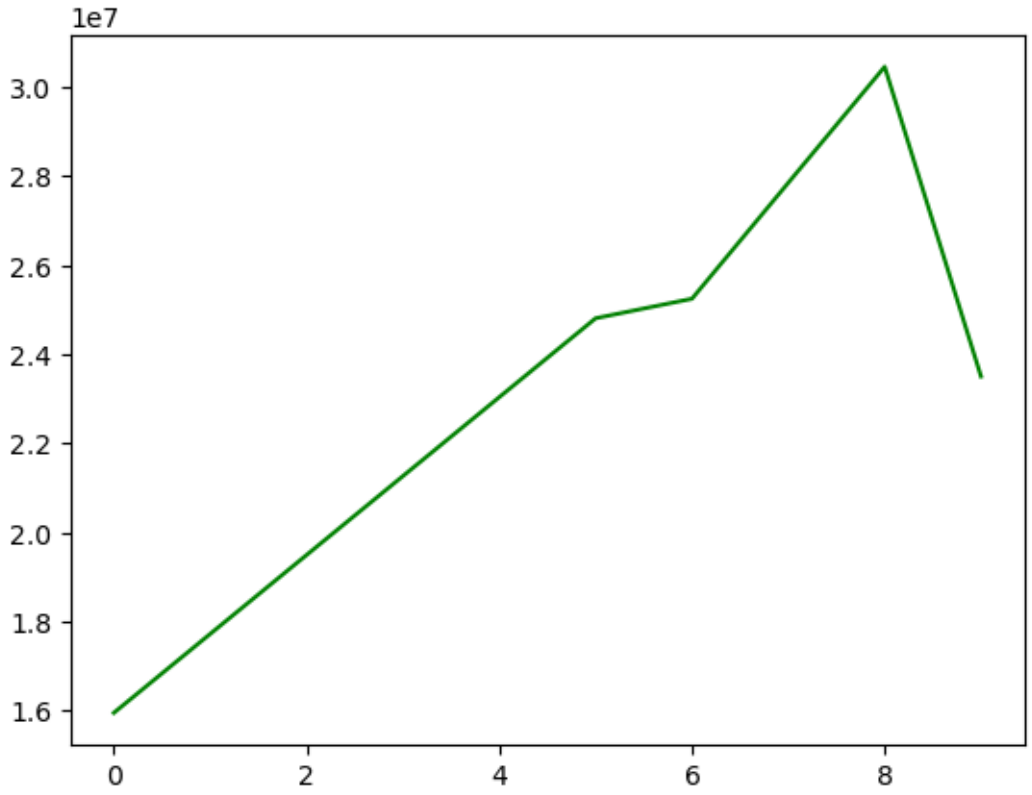
[20]:
```
plt.plot(Salary[0], c = 'r')
```

[20]:
```
[<matplotlib.lines.Line2D at 0x1369b4a50>]
```



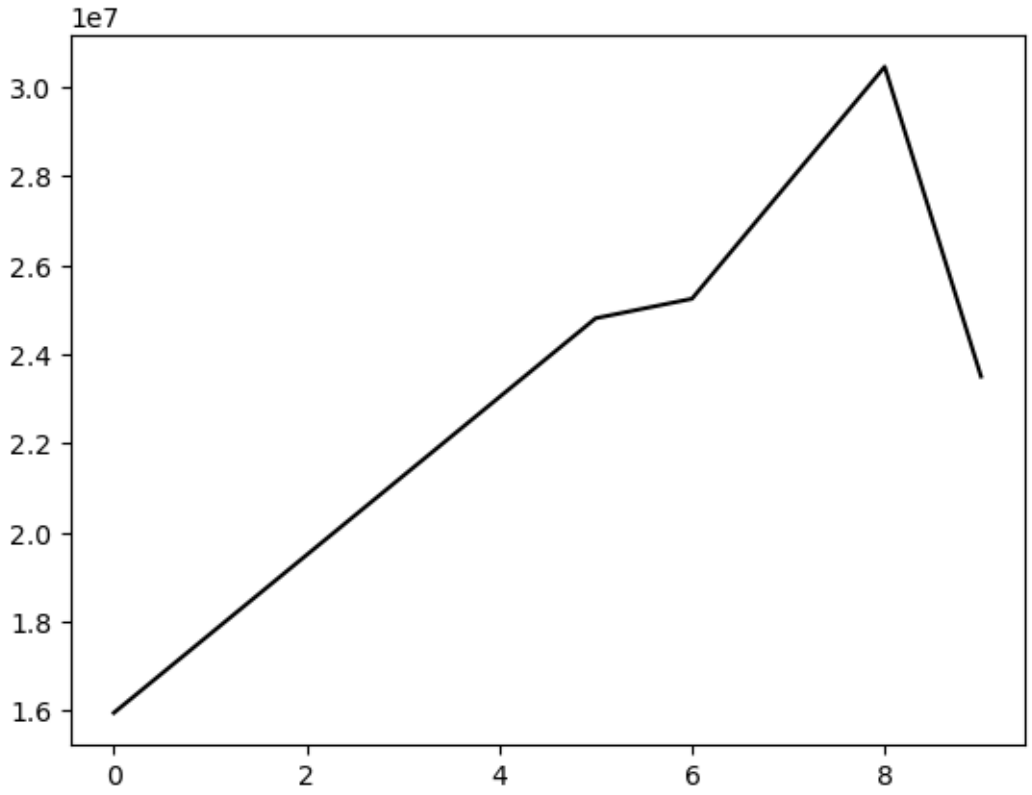
[21]:
```
plt.plot(Salary[0], c = 'g')
```

[21]:
```
[<matplotlib.lines.Line2D at 0x136a16fd0>]
```



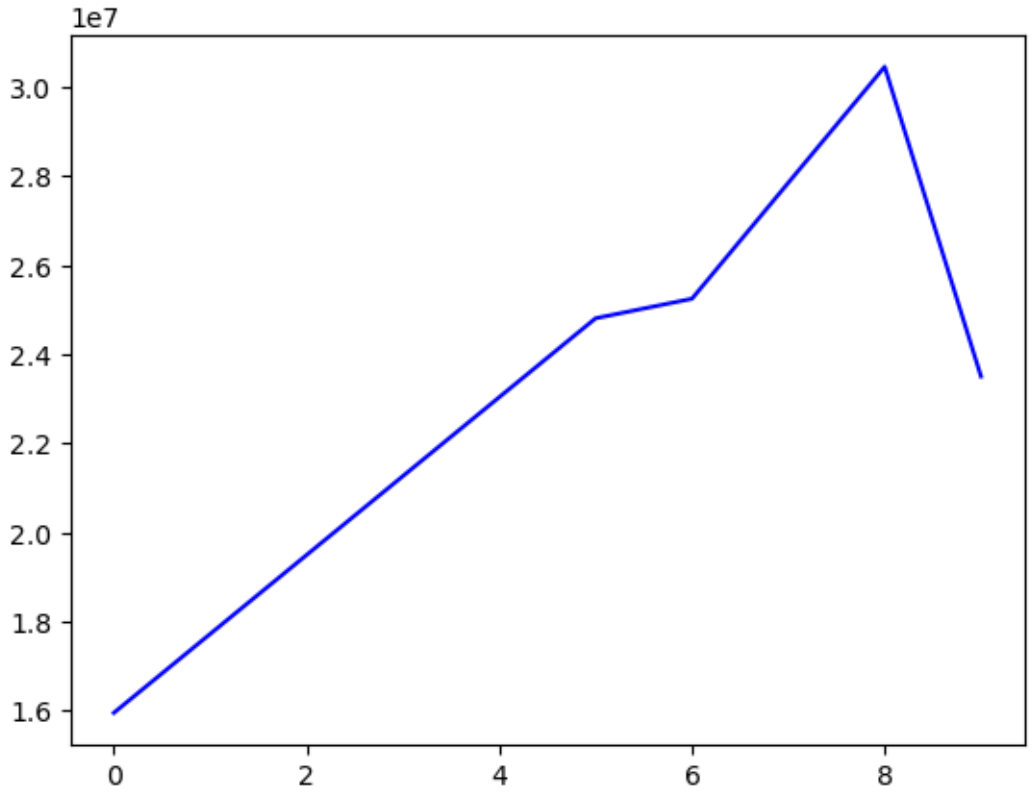
[22]:
```
plt.plot(Salary[0], c = 'k')
```

[22]:
```
[<matplotlib.lines.Line2D at 0x136aa5590>]
```



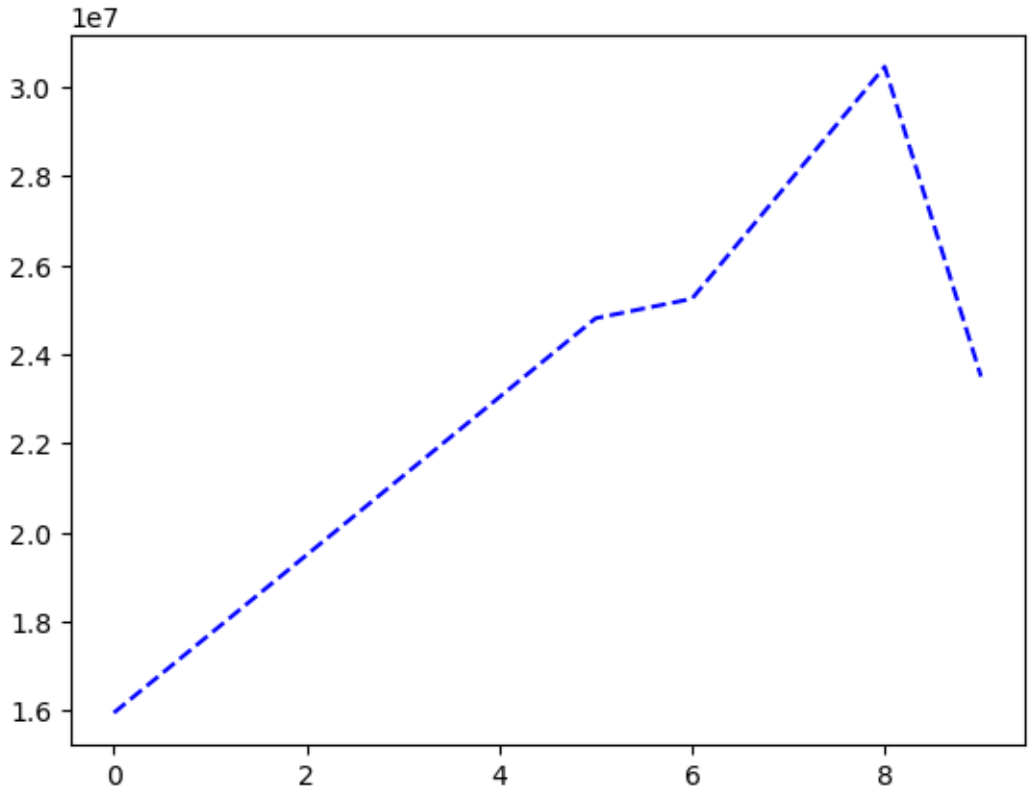
[23]:
```
plt.plot(Salary[0], c = 'b')
```

[23]: [<matplotlib.lines.Line2D at 0x136affb10>]



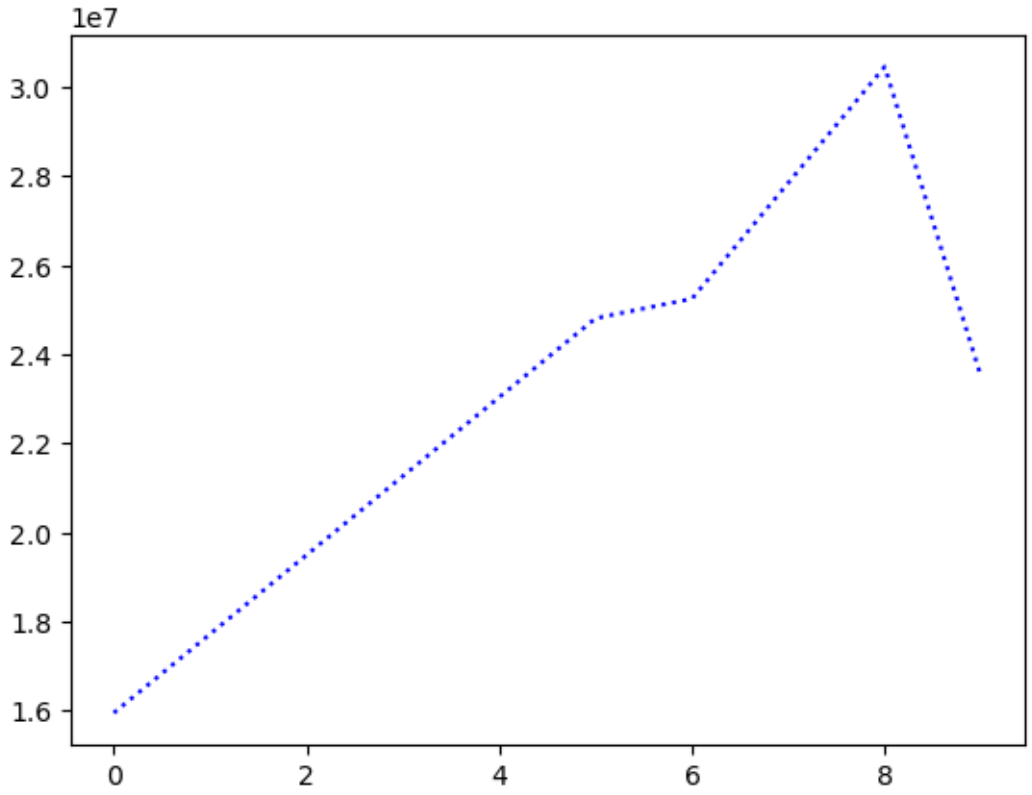
[24]:
```
plt.plot(Salary[0], c = 'b', ls = '--')
```

[24]: [<matplotlib.lines.Line2D at 0x136b9a0d0>]



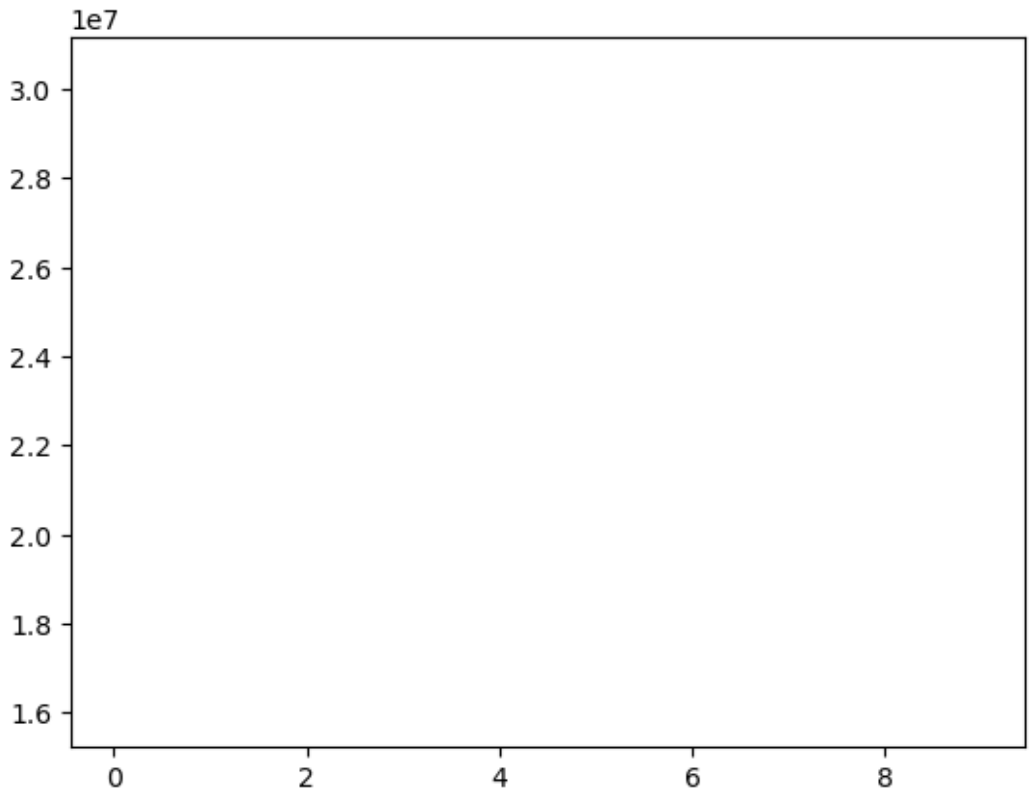
[25]:
```
plt.plot(Salary[0], c = 'b', ls = ':')
```

[25]: [<matplotlib.lines.Line2D at 0x136c287d0>]



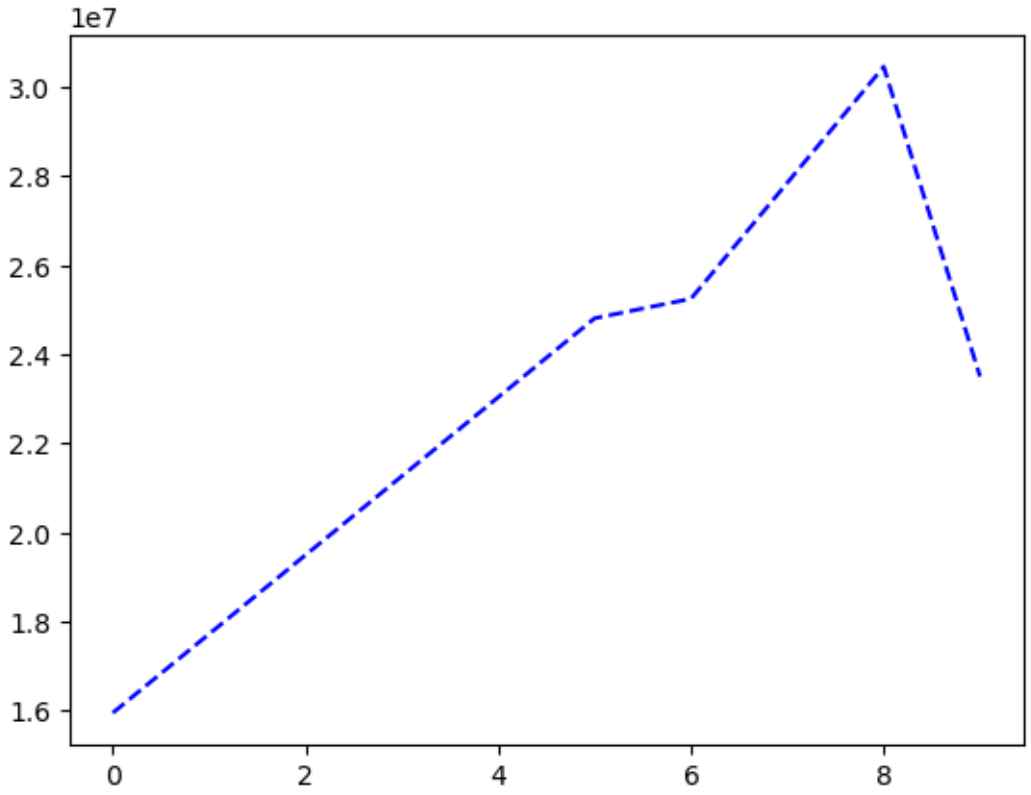
[26]:
```
plt.plot(Salary[0], c = 'b', ls = 'none')
```

[26]: [<matplotlib.lines.Line2D at 0x136c7ed50>]



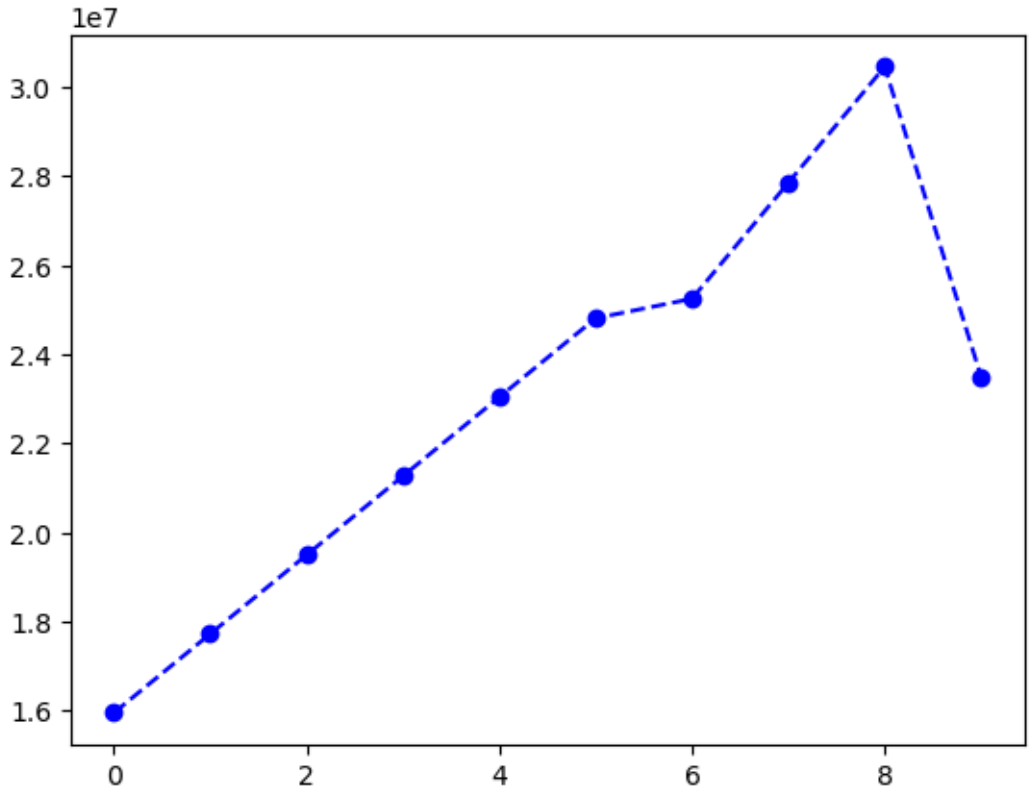
[27]:
```
plt.plot(Salary[0], c = 'b', ls = '--')
```

[27]:
```
[<matplotlib.lines.Line2D at 0x136d15310>]
```



[28]:
```
plt.plot(Salary[0], c = 'b', ls = '--', marker ='o')
```

[28]:
```
[<matplotlib.lines.Line2D at 0x136d67890>]
```



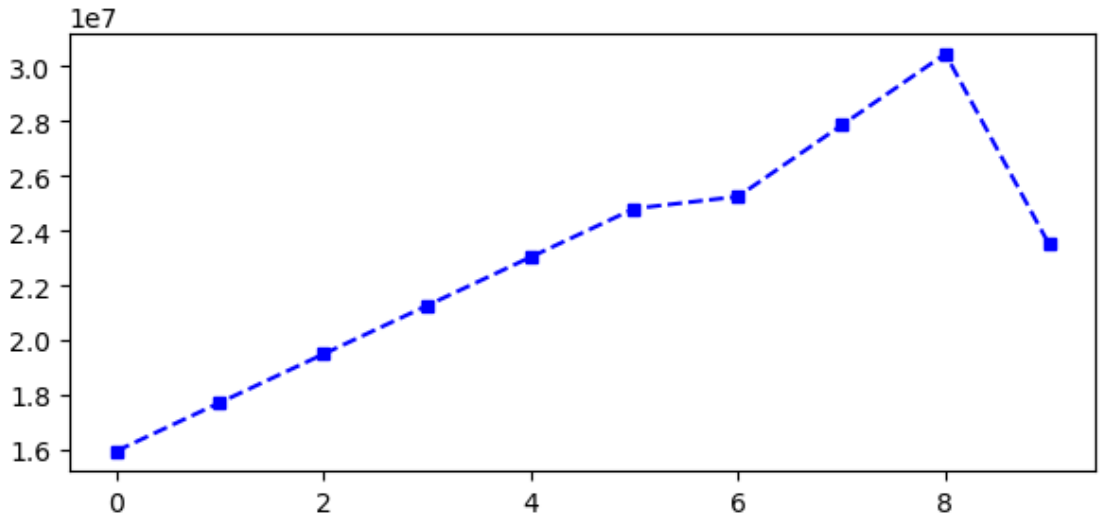
[ ]:
```
# The salary is increasing but last year decreased. Linear trend and downword
↪trend
```

[29]:
```
Games[0]
```

[29]:
```
array([80, 77, 82, 82, 73, 82, 58, 78,  6, 35])
```

[32]:
```
%matplotlib inline
plt.rcParams['figure.figsize'] = 7,3
```

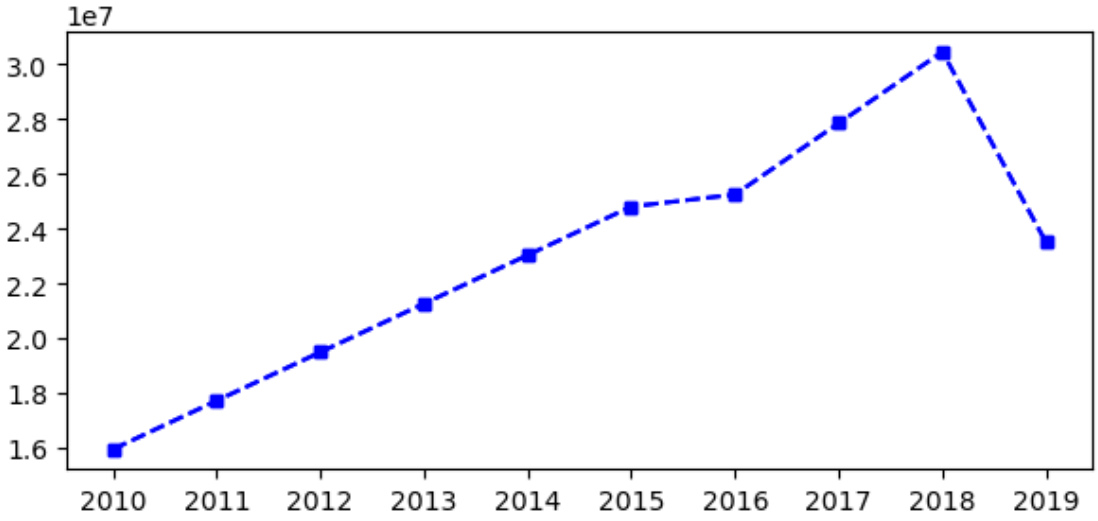
[39]:
```
plt.plot(Salary[0], c = 'b', ls = '--', marker ='s', ms = 5)
plt.show()
```



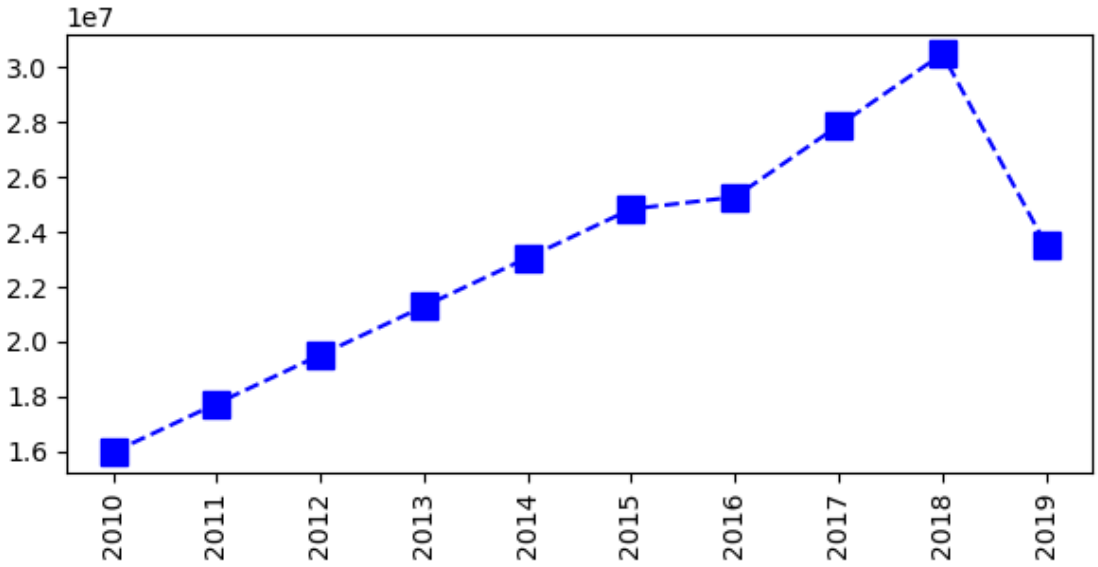
[40]:
```
Sdict
```

[40]:
```
{'2010': 0,
 '2011': 1,
 '2012': 2,
 '2013': 3,
 '2014': 4,
 '2015': 5,
 '2016': 6,
 '2017': 7,
 '2018': 8,
 '2019': 9}
```

[42]:
```
plt.plot(Salary[0], c = 'b', ls = '--', marker ='s', ms = 5)
plt.xticks(list(range(0,10)),Seasons)
plt.show()
```



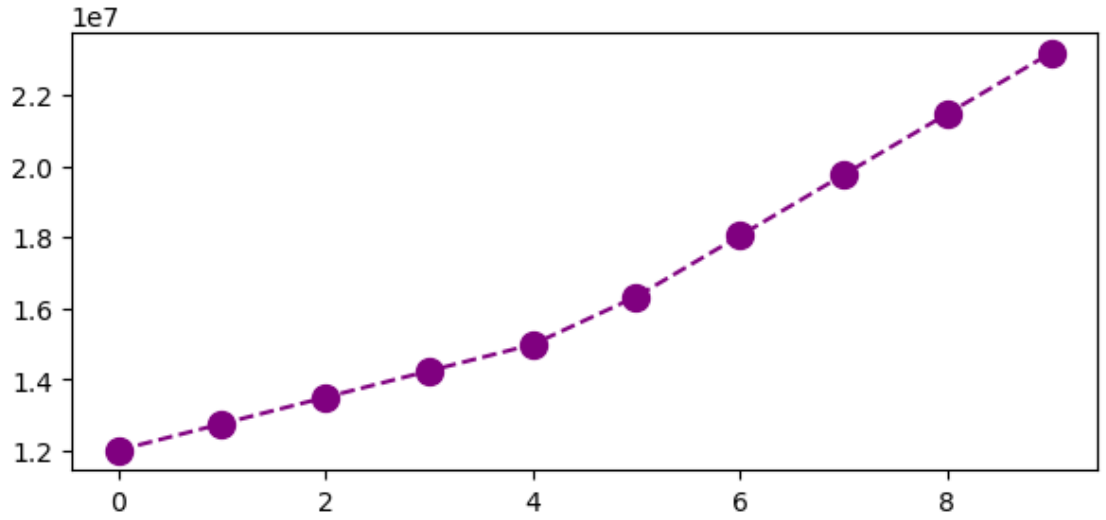
[47]:
```
plt.plot(Salary[0], c = 'b', ls = '--', marker ='s', ms = 10)
plt.xticks(list(range(0,10)),Seasons,rotation = 'vertical')
plt.show()
```



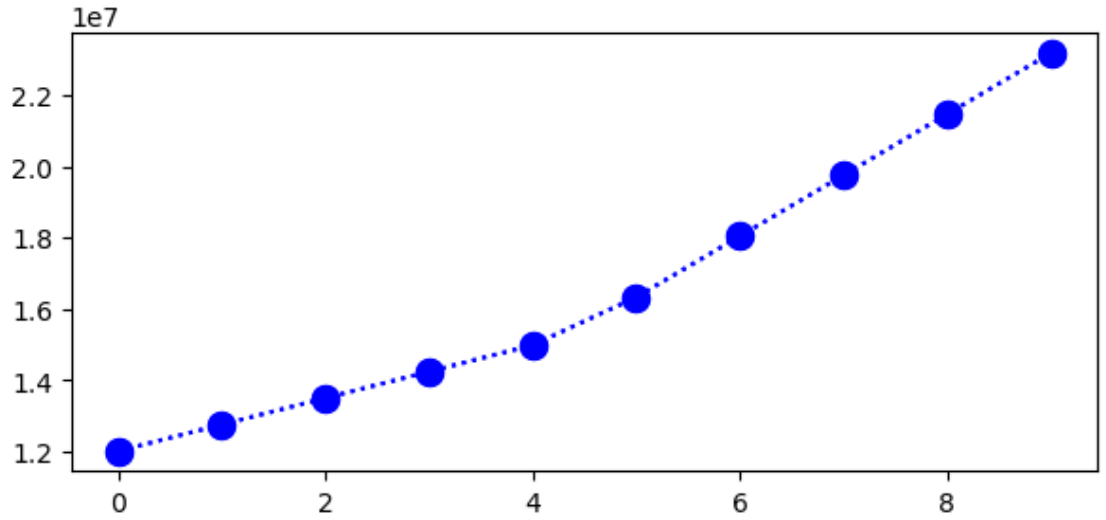
[44]:
```
Salary[1]
```

[44]:
```
array([12000000, 12744189, 13488377, 14232567, 14976754, 16324500,
       18038573, 19752645, 21466718, 23180790])
```

[46]:
```
plt.plot(Salary[1], c = 'purple', ls = '--', marker ='o', ms = 10)
plt.show()
```

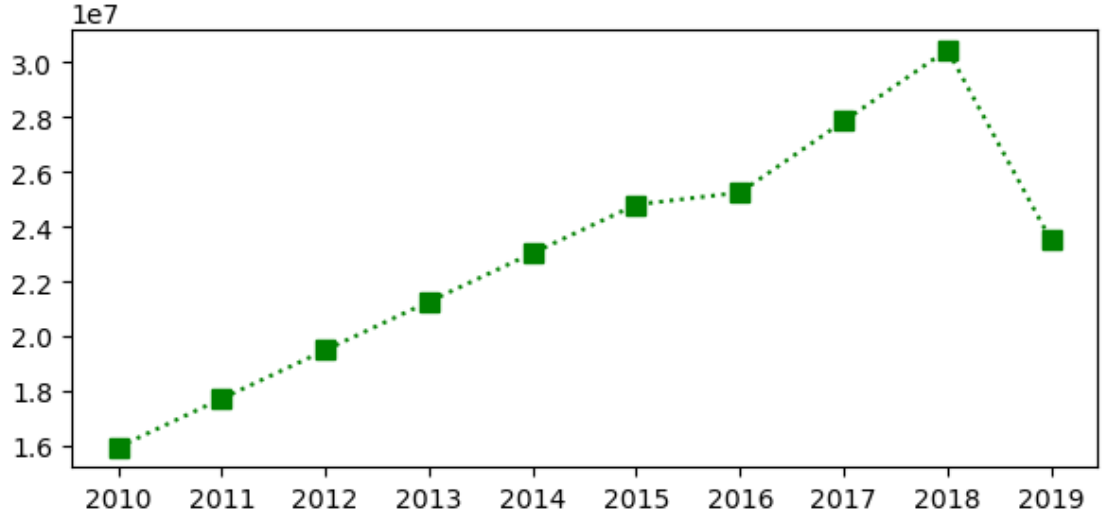


[49]:
```
plt.plot(Salary[1], c='Blue', ls = ':', marker = 'o', ms = 10, label =␣
↪Players[1])
plt.show()
```

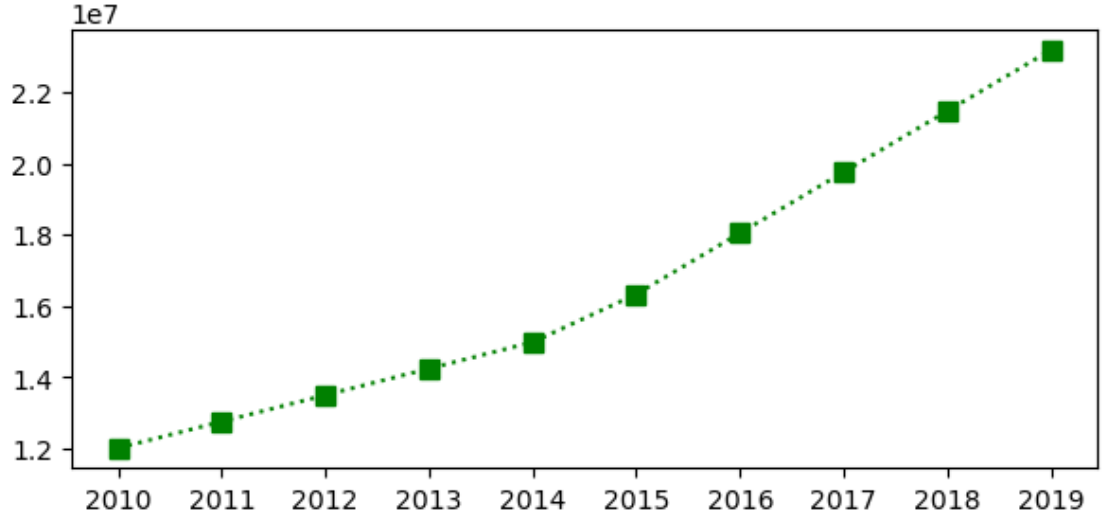


[50]:
```
plt.plot(Salary[0], c='Green', ls = ':', marker = 's', ms = 7, label =␣
↪Players[0])
plt.xticks(list(range(0,10)), Seasons,rotation='horizontal')
```

```
plt.show()
```

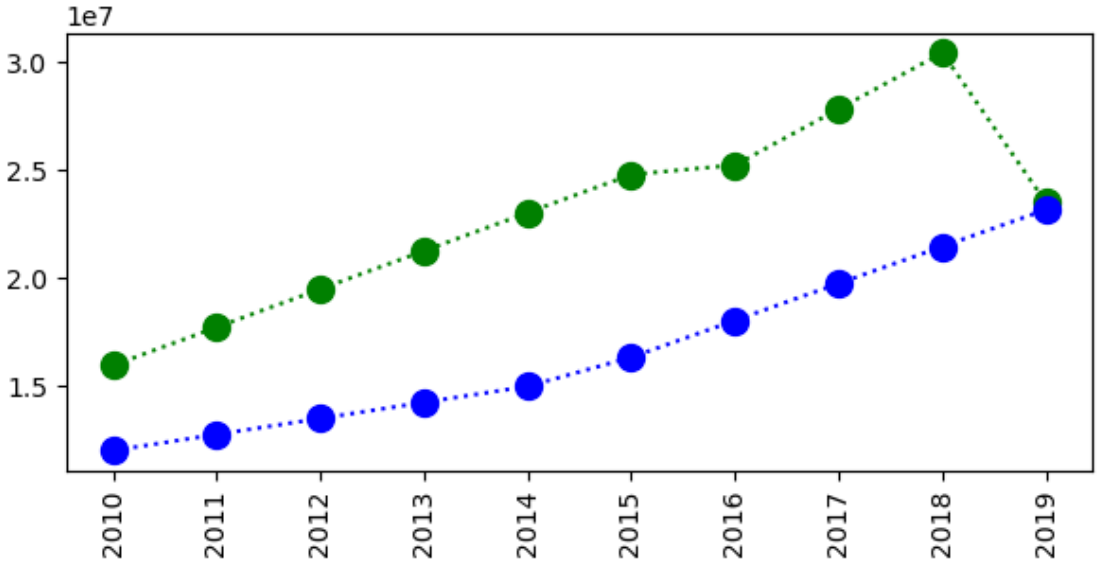


[51]:
```
plt.plot(Salary[1], c='Green', ls = ':', marker = 's', ms = 7, label =␣
↪Players[1])
plt.xticks(list(range(0,10)), Seasons,rotation='horizontal')
plt.show()
```

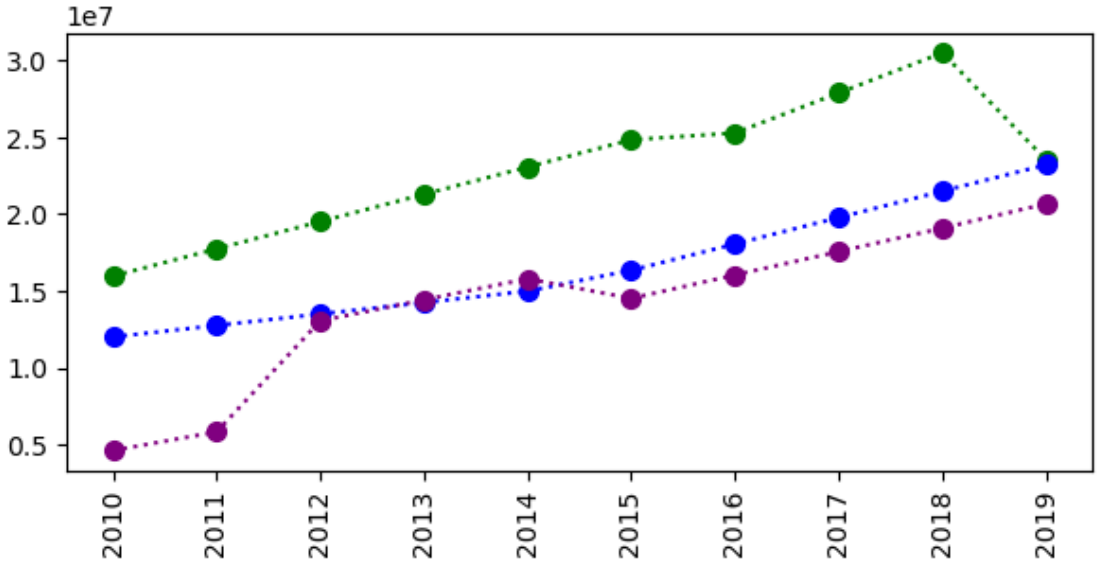


[54]:
```
plt.plot(Salary[0], c='Green', ls = ':', marker = 'o', ms = 10, label =␣
↪Players[0])
```

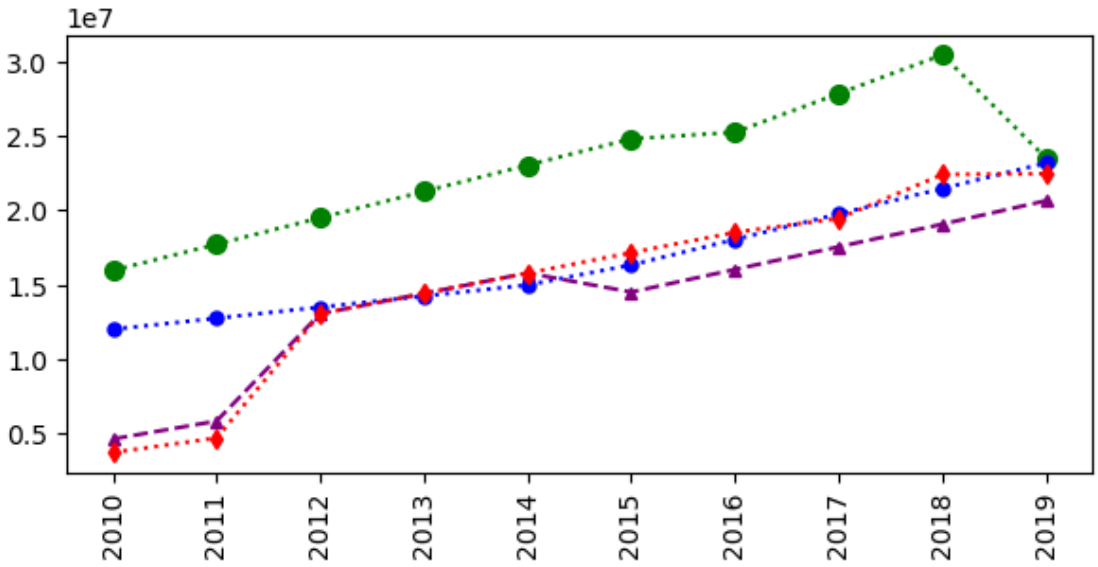
```
plt.plot(Salary[1], c='Blue', ls = ':', marker = 'o', ms = 10, label =␣
 ↪Players[1])

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

plt.show()
```



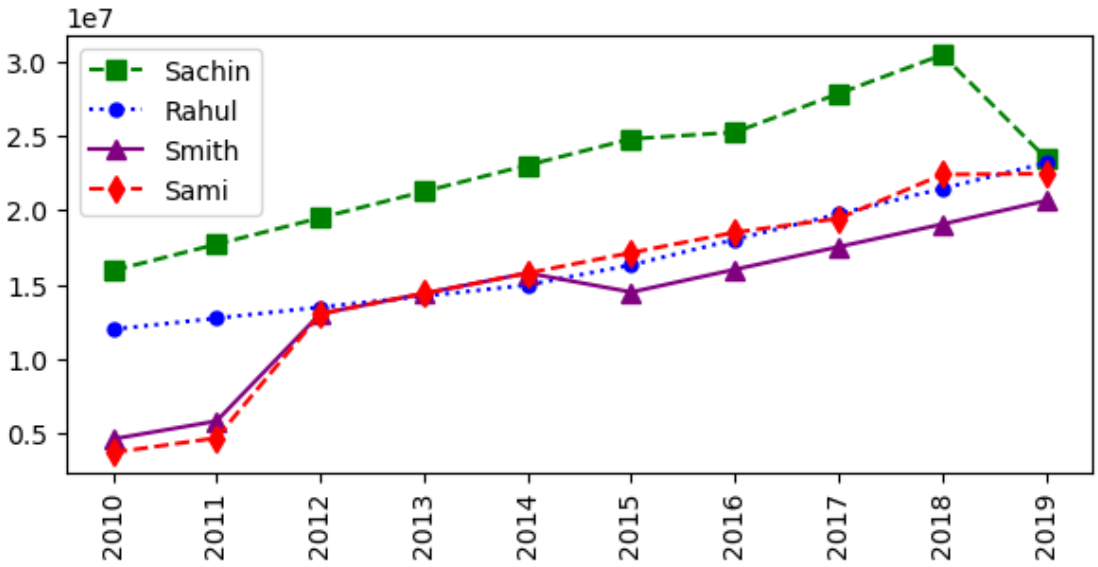
[57]:
```
plt.plot(Salary[0], c='Green', ls = ':', marker = 'o', ms = 7, label =␣
 ↪Players[0])
plt.plot(Salary[1], c='Blue', ls = ':', marker = 'o', ms = 7, label =␣
 ↪Players[1])
plt.plot(Salary[2], c='Purple', ls = ':', marker = 'o', ms = 7, label =␣
 ↪Players[2])
plt.xticks(list(range(0,10)), Seasons,rotation='vertical')
plt.show()
```



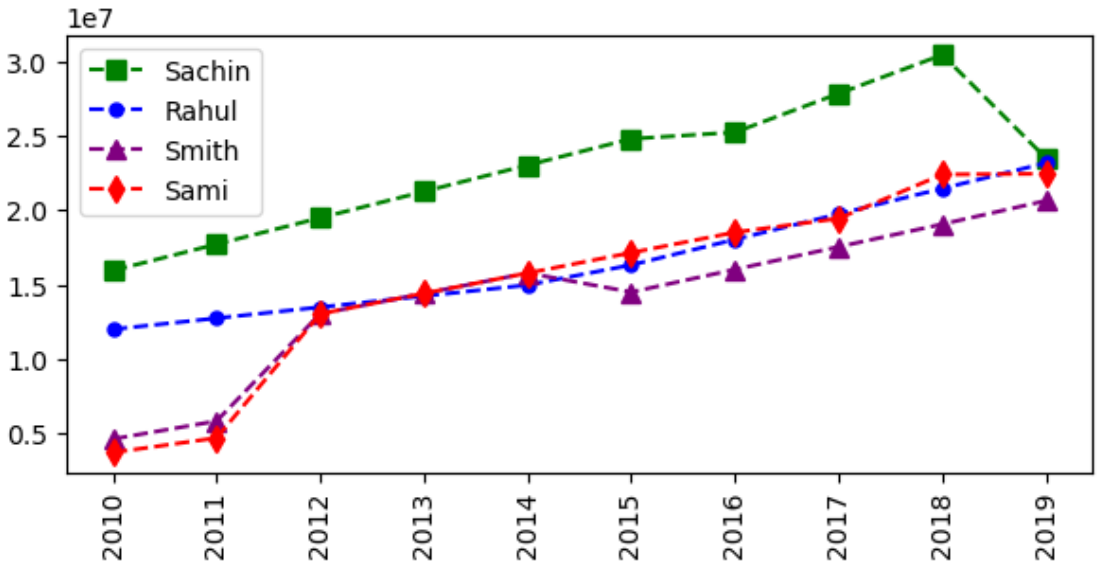
[59]:
```
plt.plot(Salary[0], c='Green', ls = ':', marker = 'o', ms = 7, label =␣
 ↪Players[0])
plt.plot(Salary[1], c='Blue', ls = ':', marker = 'o', ms = 5, label =␣
 ↪Players[1])
plt.plot(Salary[2], c='purple', ls = '--', marker = '^', ms = 5, label =␣
 ↪Players[2])
plt.plot(Salary[3], c='Red', ls = ':', marker = 'd', ms = 5, label = Players[3])

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

plt.show()
```



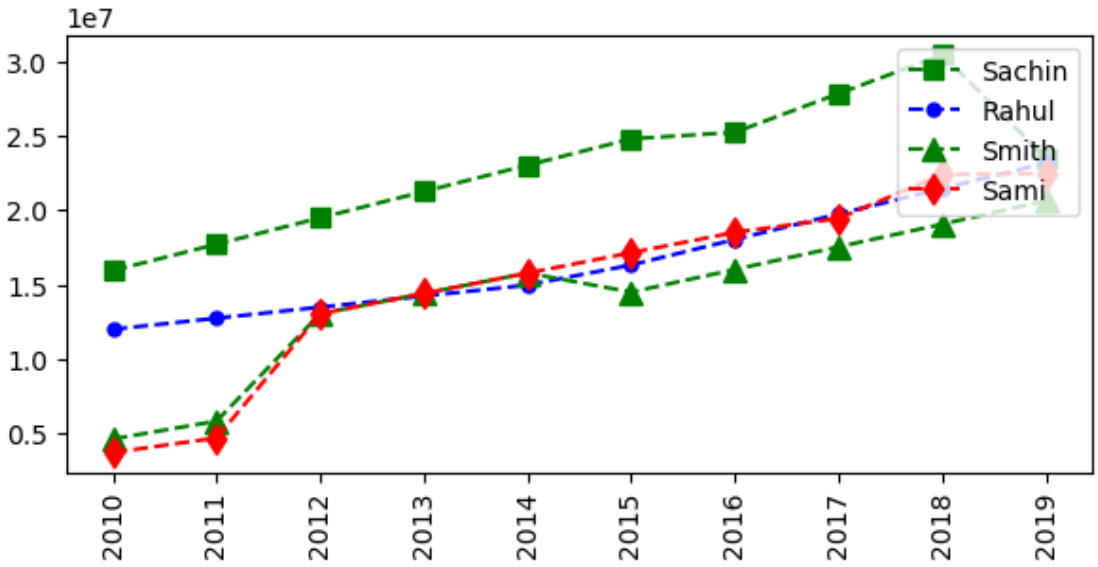
[63]:
```
plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label =␣
 ↪Players[0])
plt.plot(Salary[1], c='Blue', ls = ':', marker = 'o', ms = 5, label =␣
 ↪Players[1])
plt.plot(Salary[2], c='purple', ls = '-', marker = '^', ms = 7, label =␣
 ↪Players[2])
plt.plot(Salary[3], c='Red', ls = '--', marker = 'd', ms = 7, label =␣
 ↪Players[3])
plt.legend()
plt.xticks(list(range(0,10)), Seasons,rotation='vertical')

plt.show()
```



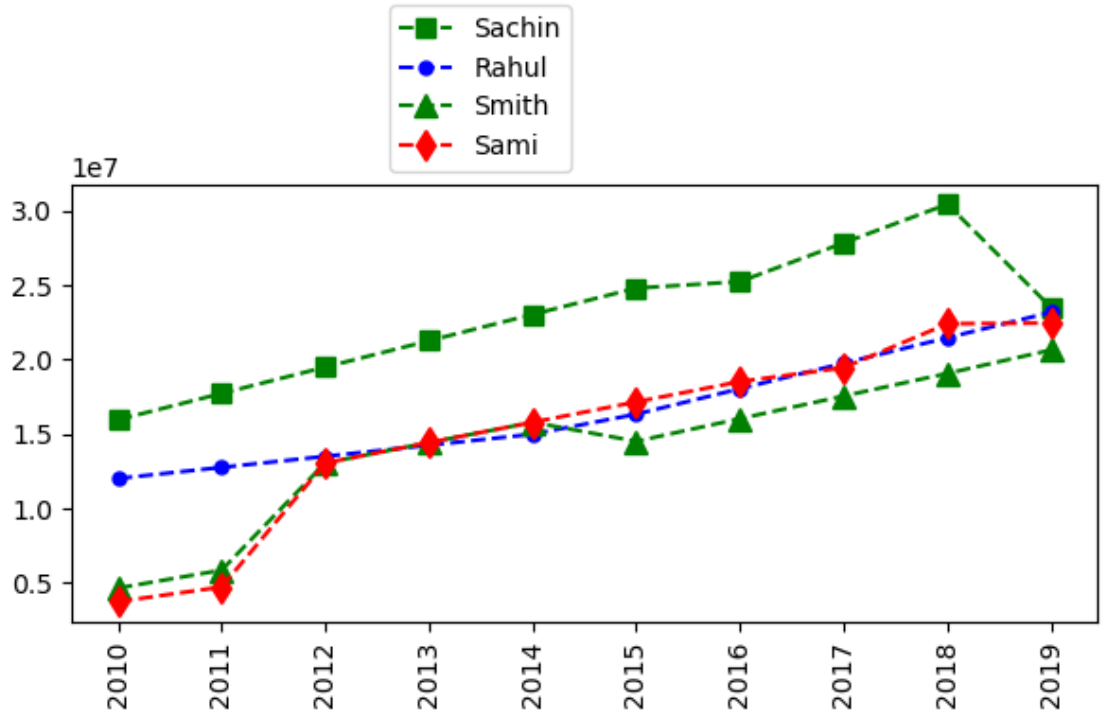
[80]:
```
plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label =␣
 ↪Players[0])
plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label =␣
 ↪Players[1])
plt.plot(Salary[2], c='purple', ls = '--', marker = '^', ms = 7, label =␣
 ↪Players[2])
plt.plot(Salary[3], c='Red', ls = '--', marker = 'd', ms = 7, label =␣
 ↪Players[3])
plt.legend(loc = 'upper left',bbox_to_anchor=(0,1) )
plt.xticks(list(range(0,10)), Seasons,rotation='vertical')

plt.show()
```



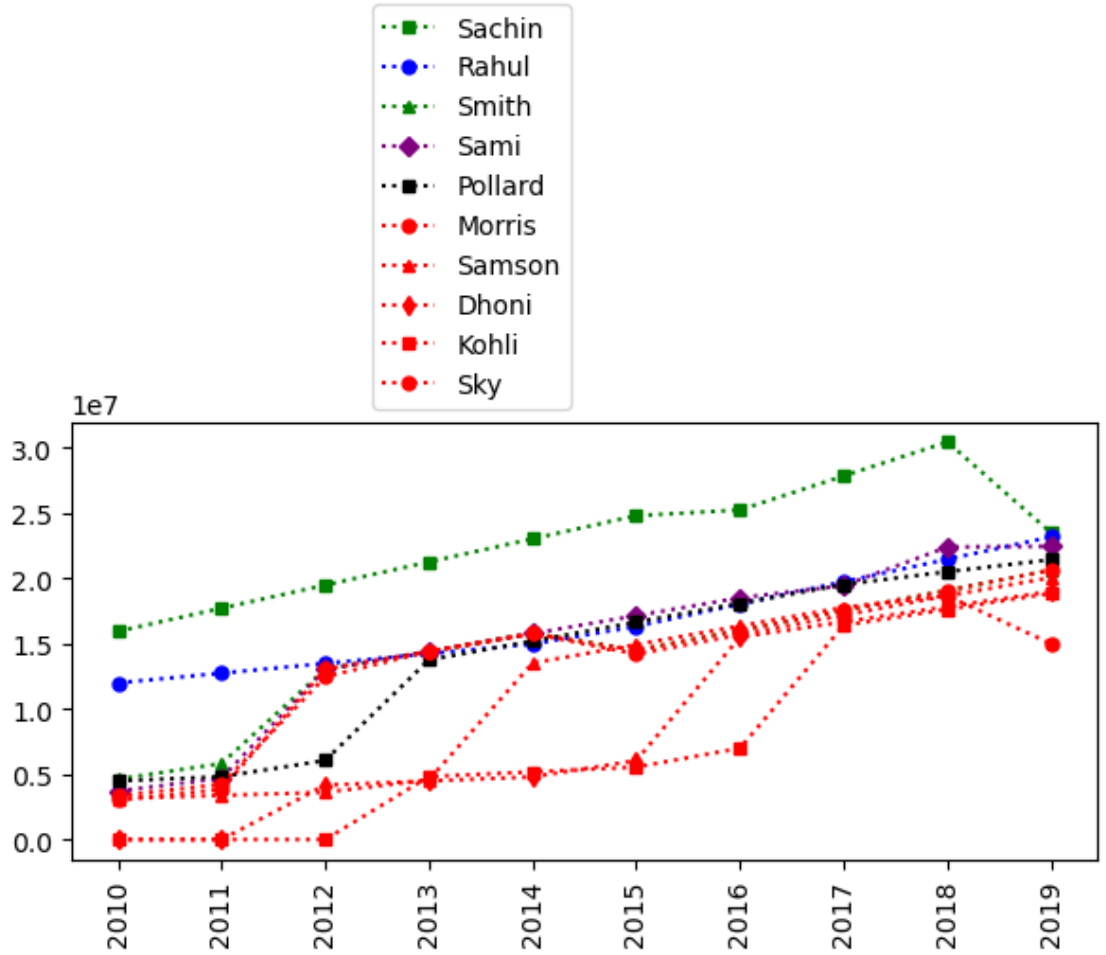
[97]:
```
plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label =␣
 ↪Players[0])
plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label =␣
 ↪Players[1])
plt.plot(Salary[2], c='Green', ls = '--', marker = '^', ms = 8, label =␣
 ↪Players[2])
plt.plot(Salary[3], c='Red', ls = '--', marker = 'd', ms = 8, label =␣
 ↪Players[3])
plt.legend(loc = 'upper right',bbox_to_anchor= (1,1))
plt.xticks(list(range(0,10)), Seasons,rotation='vertical')

plt.show()
```



[98]:
```
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()
```



[105]:
```
plt.plot(Salary[0], c='Green', ls = ':', marker = 's', ms = 5, 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 = 5, label =␣
 ↪Players[2])
plt.plot(Salary[3], c='Purple', ls = ':', marker = 'D', ms = 5, label =␣
 ↪Players[3])
plt.plot(Salary[4], c='Black', ls = ':', marker = 's', ms = 5, label =␣
 ↪Players[4])
plt.plot(Salary[5], c='Red', ls = ':', marker = 'o', ms = 5, label = Players[5])
plt.plot(Salary[6], c='Red', ls = ':', marker = '^', ms = 5, label = Players[6])
plt.plot(Salary[7], c='Red', ls = ':', marker = 'd', ms = 5, label = Players[7])
plt.plot(Salary[8], c='Red', ls = ':', marker = 's', ms = 5, label = Players[8])
plt.plot(Salary[9], c='Red', ls = ':', marker = 'o', ms = 5, label = Players[9])

plt.legend(loc = 'lower right',bbox_to_anchor=(0.5,1) )
plt.xticks(list(range(0,10)), Seasons,rotation='vertical')

plt.show()
```



[107]:
```
plt.plot(Games[0], c='Green', ls = ':', marker = 's', ms = 4, label =␣
 ↪Players[0])
plt.plot(Games[1], c='Blue', ls = ':', marker = 'o', ms = 4, label = Players[1])
plt.plot(Games[2], c='Green', ls = ':', marker = '^', ms = 4, label =␣
 ↪Players[2])
plt.plot(Games[3], c='Red', ls = ':', marker = 'D', ms = 4, label = Players[3])
plt.plot(Games[4], c='Black', ls = ':', marker = 's', ms = 4, label =␣
 ↪Players[4])
plt.plot(Games[5], c='Blue', ls = ':', marker = 'o', ms = 4, label = Players[5])
plt.plot(Games[6], c='red', ls = ':', marker = '^', ms = 4, label = Players[6])
plt.plot(Games[7], c='Green', ls = ':', marker = 'd', ms = 4, label =␣
 ↪Players[7])
plt.plot(Games[8], c='Red', ls = ':', marker = 's', ms = 4, label = Players[8])
plt.plot(Games[9], c='Blue', ls = ':', marker = 'o', ms = 4, label = Players[9])

plt.legend(loc = 'lower right',bbox_to_anchor=(0.5,1) )
```

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

plt.show()
```