

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

```
In [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}

#Players
Players = ["Sachin", "Rahul", "Smith", "Sami", "Pollard", "Morris", "Samson", "Dhoni", "Pdick"]
Pdict = {"Sachin":0,"Rahul":1,"Smith":2,"Sami":3,"Pollard":4,"Morris":5,"Samson":6,"Dhoni":7}

#Salaries
Sachin_Salary = [15946875, 17718750, 19490625, 21262500, 23034375, 24806250, 25244493,
Rahul_Salary = [12000000, 12744189, 13488377, 14232567, 14976754, 16324500, 18038573, 18091770,
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
```

```
In [6]: Salary = np.array([Sachin_Salary, Rahul_Salary, Smith_Salary, Sami_Salary, Pollard_Salary])
```

```
Out[6]: 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 [8]: #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]
```

In [9]: Games = np.array([Sachin\_G,Rahul\_G,Smith\_G,Sami\_G,Pollard\_G,Morris\_G,Samson\_G,Dhoni\_G])  
Games

Out[9]: array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35],  
[82, 57, 82, 79, 76, 72, 60, 72, 79, 80],  
[79, 78, 75, 81, 76, 79, 62, 76, 77, 69],  
[80, 65, 77, 66, 69, 77, 55, 67, 77, 40],  
[82, 82, 82, 79, 82, 78, 54, 76, 71, 41],  
[70, 69, 67, 77, 70, 77, 57, 74, 79, 44],  
[78, 64, 80, 78, 45, 80, 60, 70, 62, 82],  
[35, 35, 80, 74, 82, 78, 66, 81, 81, 27],  
[40, 40, 40, 81, 78, 81, 39, 0, 10, 51],  
[75, 51, 51, 79, 77, 76, 49, 69, 54, 62]])

In [10]: #Points  
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]

In [11]: Points = np.array([Sachin PTS,Rahul PTS,Smith PTS,Sami PTS,Pollard PTS,Morris PTS])  
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, 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 [12]: Salary

```
Out[12]: 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 [14]: Games

```
Out[14]: 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 [15]: Points

```
Out[15]: array([[2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133, 83, 782],
   [1653, 1426, 1779, 1688, 1619, 1312, 1129, 1170, 1245, 1154],
   [2478, 2132, 2250, 2304, 2258, 2111, 1683, 2036, 2089, 1743],
   [2122, 1881, 1978, 1504, 1943, 1970, 1245, 1920, 2112, 966],
   [1292, 1443, 1695, 1624, 1503, 1784, 1113, 1296, 1297, 646],
   [1572, 1561, 1496, 1746, 1678, 1438, 1025, 1232, 1281, 928],
   [1258, 1104, 1684, 1781, 841, 1268, 1189, 1186, 1185, 1564],
   [ 903,  903, 1624, 1871, 2472, 2161, 1850, 2280, 2593, 686],
   [ 597,  597,  597, 1361, 1619, 2026, 852, 0, 159, 904],
   [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]])
```

In [20]: Games[5]

```
Out[20]: array([70, 69, 67, 77, 70, 77, 57, 74, 79, 44])
```

In [21]: Games[0:5]

```
Out[21]: 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 [22]: Games[0,5]
```

```
Out[22]: 82
```

```
In [23]: Games[-3:-1]
```

```
Out[23]: array([[35, 35, 80, 74, 82, 78, 66, 81, 81, 27],  
[40, 40, 40, 81, 78, 81, 39, 0, 10, 51]])
```

```
In [24]: Points
```

```
Out[24]: 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 [25]: Points[0]
```

```
Out[25]: array([2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133, 83, 782])
```

```
In [26]: Points[:]
```

```
Out[26]: 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 [27]: Games
```

```
Out[27]: 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 [28]: Pdict
```

```
Out[28]: {'Sachin': 0,
          'Rahul': 1,
          'Smith': 2,
          'Sami': 3,
          'Pollard': 4,
          'Morris': 5,
          'Samson': 6,
          'Dhoni': 7,
          'Kohli': 8,
          'Sky': 9}
```

```
In [29]: Pdict['Sachin']
```

```
Out[29]: 0
```

```
In [30]: Games[0]
```

```
Out[30]: array([80, 77, 82, 82, 73, 82, 58, 78, 6, 35])
```

```
In [32]: Games[Pdict['Smith']]
```

```
Out[32]: array([79, 78, 75, 81, 76, 79, 62, 76, 77, 69])
```

```
In [34]: Points
```

```
Out[34]: 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 [35]: Salary
```

```
Out[35]: 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 [36]: Games
```

```
Out[36]: 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 [ ]:
```

```
In [37]: Salary/Games
```

```
C:\Users\user\AppData\Local\Temp\ipykernel_1048\1389434148.py:1: RuntimeWarning:  
divide by zero encountered in divide  
Salary/Games
```

```
Out[37]: 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 [38]: np.round(Salary/Games)
```

```
C:\Users\user\AppData\Local\Temp\ipykernel_1048\3232172828.py:1: RuntimeWarning:
divide by zero encountered in divide
np.round(Salary/Games)
```

```
Out[38]: array([[ 199336.,  230114.,  237691.,  259299.,  315539.,  302515.,
   435250.,  357040.,  5075634.,  671429.],
 [ 146341.,  223582.,  164492.,  180159.,  197063.,  226729.,
  300643.,  274342.,  271731.,  289760.],
 [ 58504.,  74719.,  173883.,  177908.,  207630.,  183544.,
  258427.,  230855.,  247630.,  299194.],
 [ 46420.,  72216.,  169367.,  218342.,  228694.,  222717.,
  336701.,  290299.,  291006.,  561450.],
 [ 54795.,  58619.,  73918.,  174152.,  185397.,  213425.,
  335033.,  257057.,  288918.,  522836.],
 [ 47829.,  61380.,  185896.,  187150.,  225427.,  188312.,
  281096.,  237095.,  241361.,  469191.],
 [ 40311.,  52815.,  45200.,  58643.,  300456.,  186752.,
  272663.,  253992.,  301104.,  244739.],
 [ 0.,  0.,  52140.,  60595.,  58499.,  77611.,
  234949.,  205798.,  220156.,  703542.],
 [ 0.,  0.,  0.,  59541.,  66468.,  68471.,
  179326.,  inf,  1763269.,  369860.],
 [ 40426.,  75322.,  255711.,  182412.,  204934.,  186842.,
  320224.,  249014.,  345796.,  241935.]])
```

```
In [39]: import warnings
warnings.filterwarnings('ignore')
```

```
In [40]: import matplotlib.pyplot as plt
%matplotlib inline
```

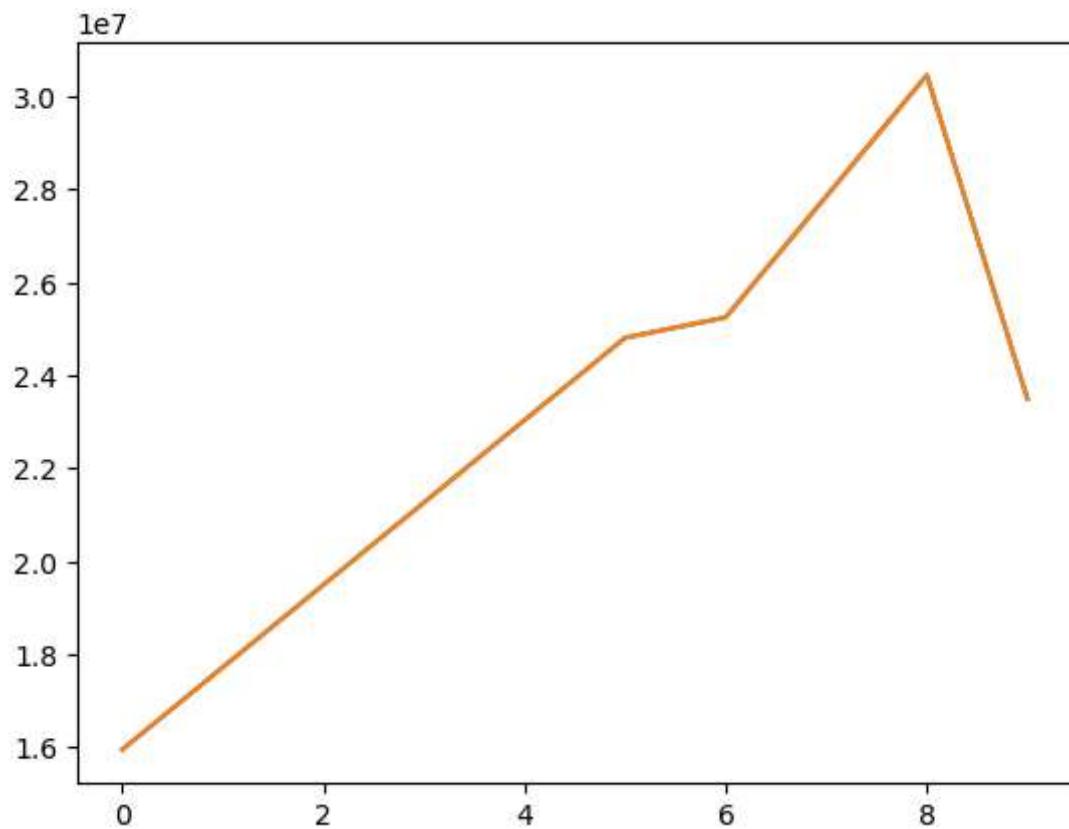
```
In [41]: Salary
```

```
Out[41]: 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]])
```

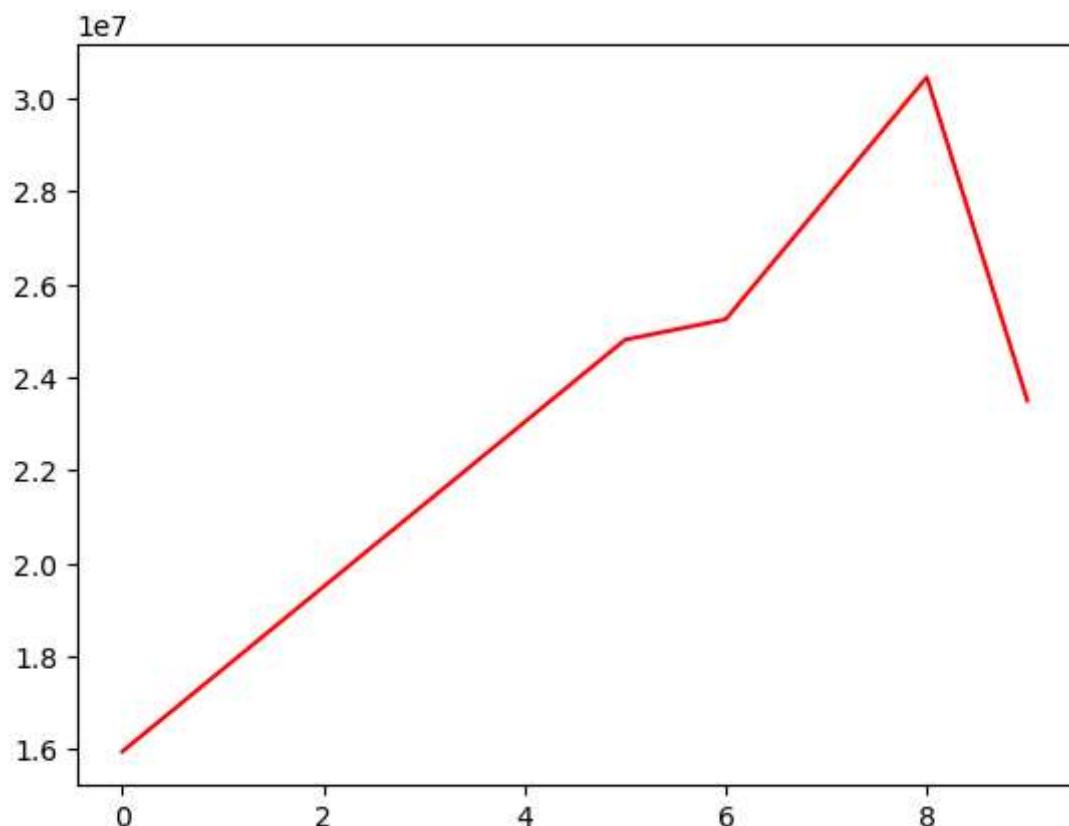
```
In [42]: Salary[0]
```

```
Out[42]: array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
25244493, 27849149, 30453805, 23500000])
```

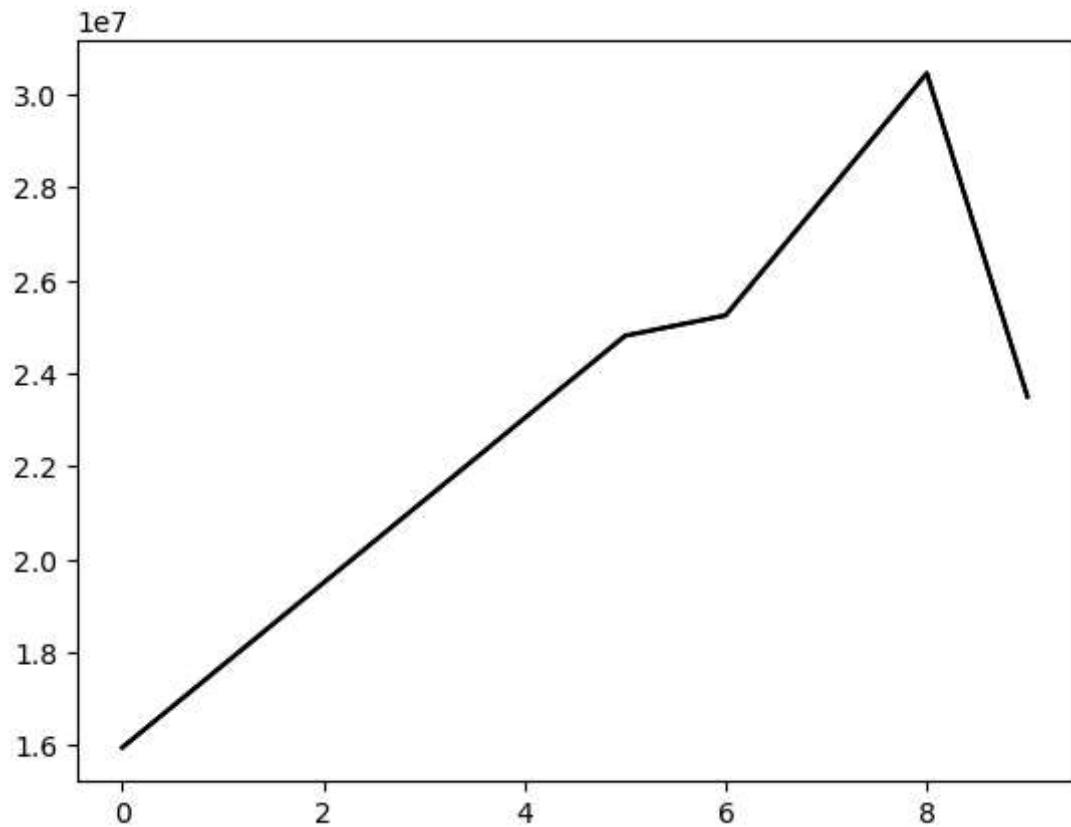
```
In [45]: plt.plot(Salary[0])
plt.show()
```



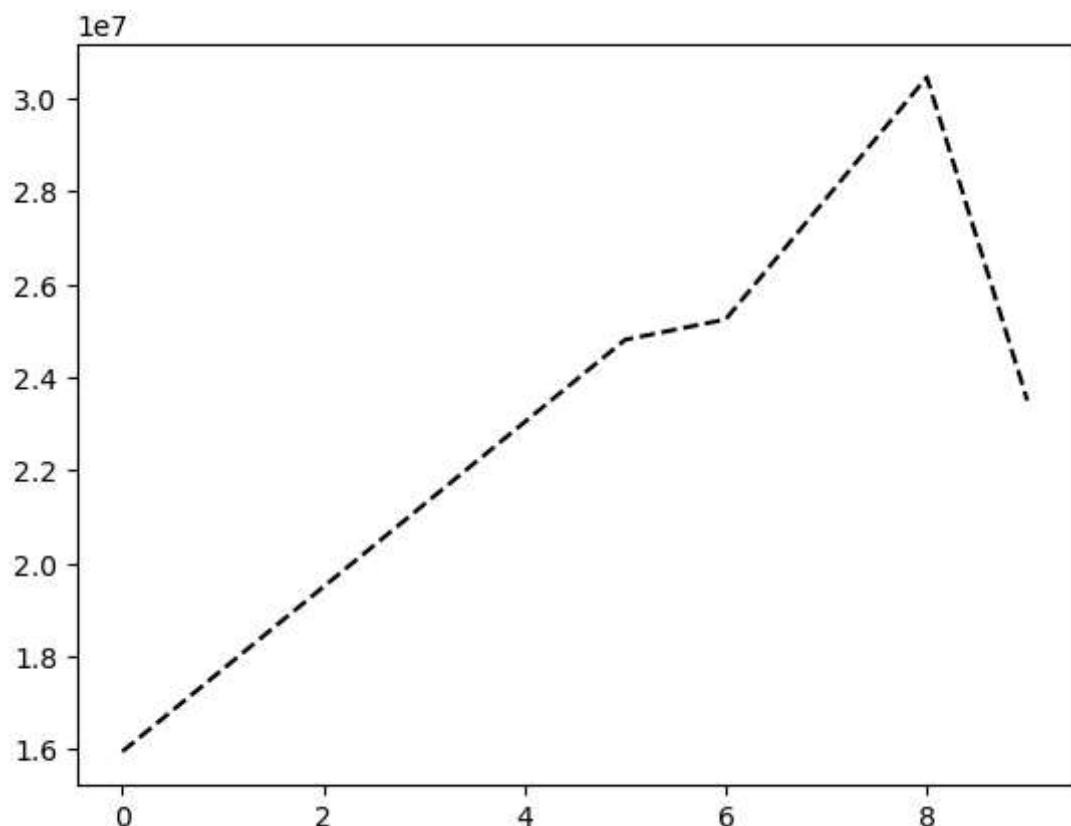
```
In [46]: plt.plot(Salary[0],c='red')
plt.show()
```



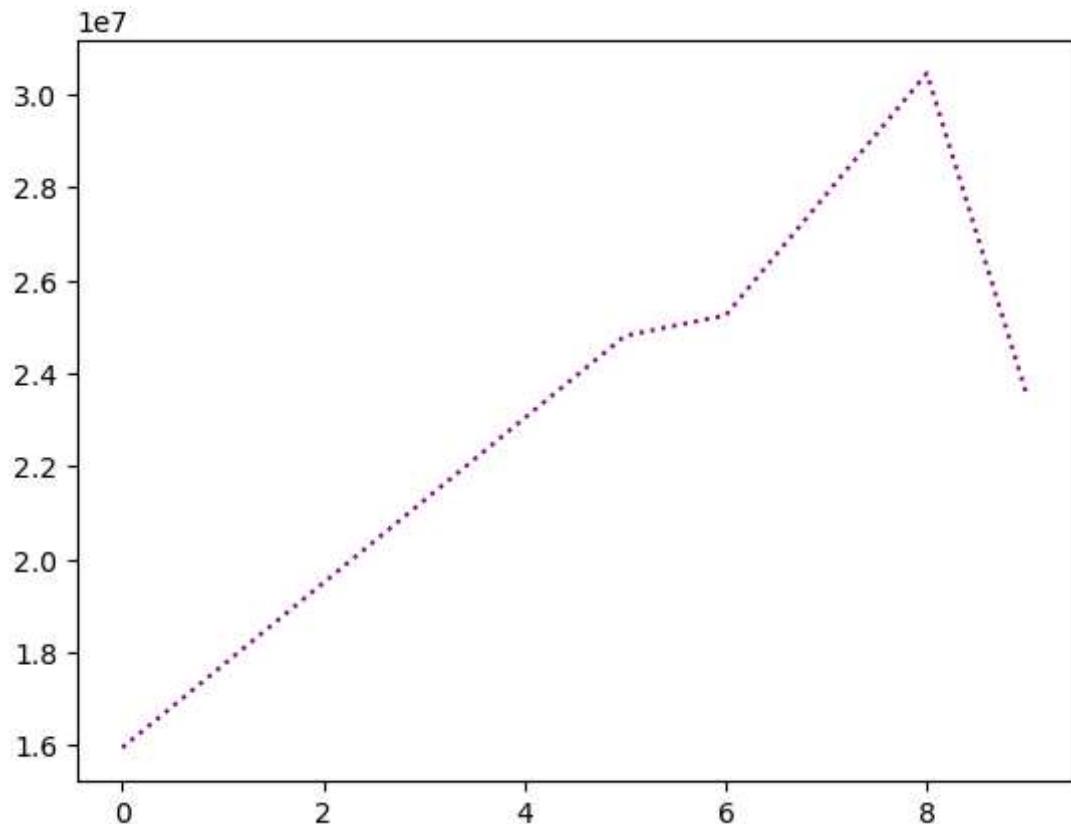
```
In [49]: plt.plot(Salary[0],color='k')
plt.show()
```



```
In [50]: plt.plot(Salary[0], color='k', ls='--')
plt.show()
```

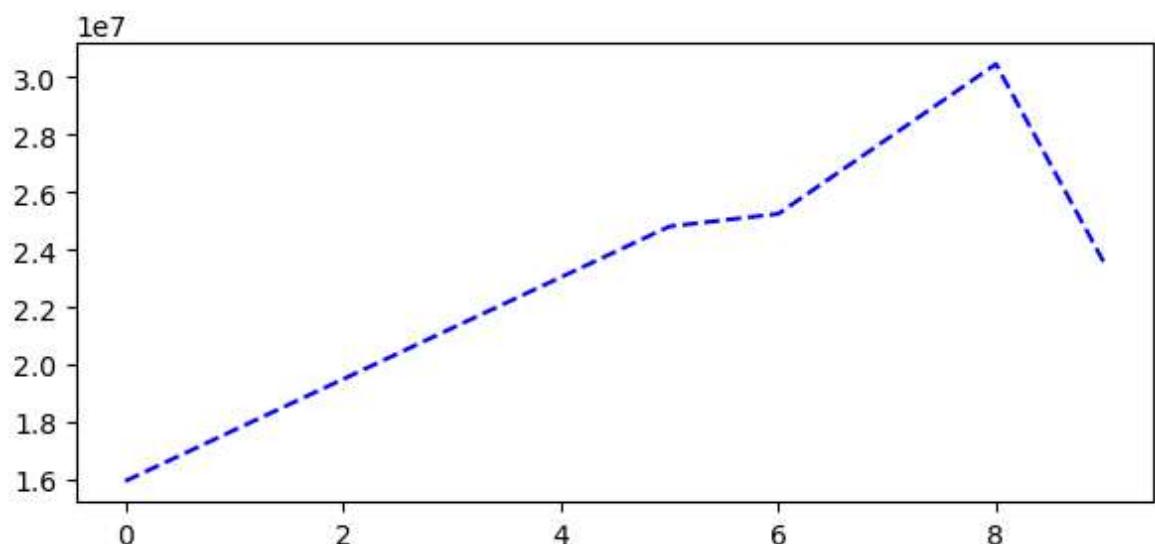


```
In [51]: plt.plot(Salary[0], color='purple', ls='dotted')
plt.show()
```

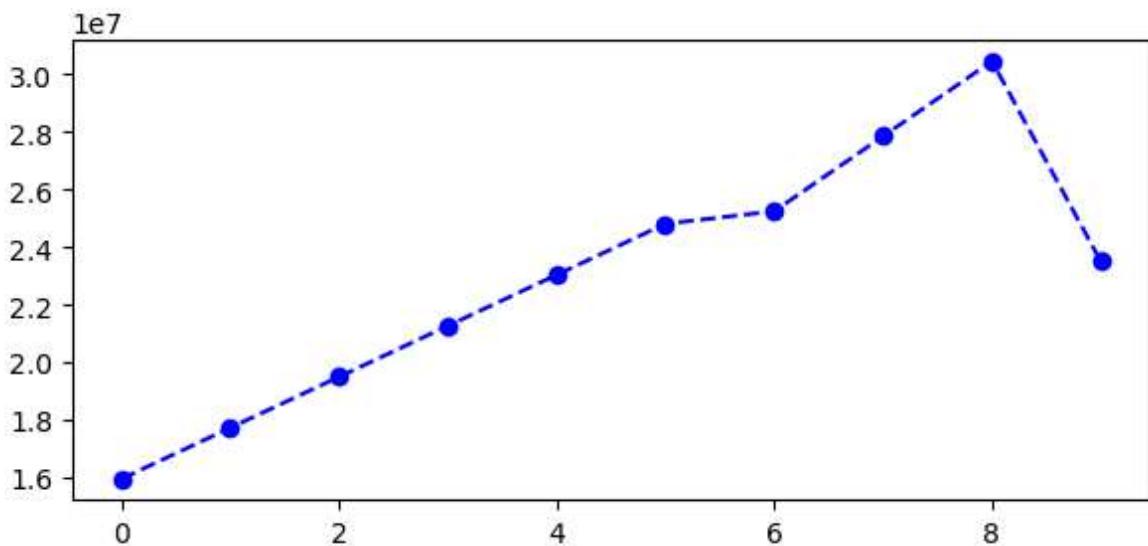


```
In [52]: plt.rcParams['figure.figsize']=7,3
```

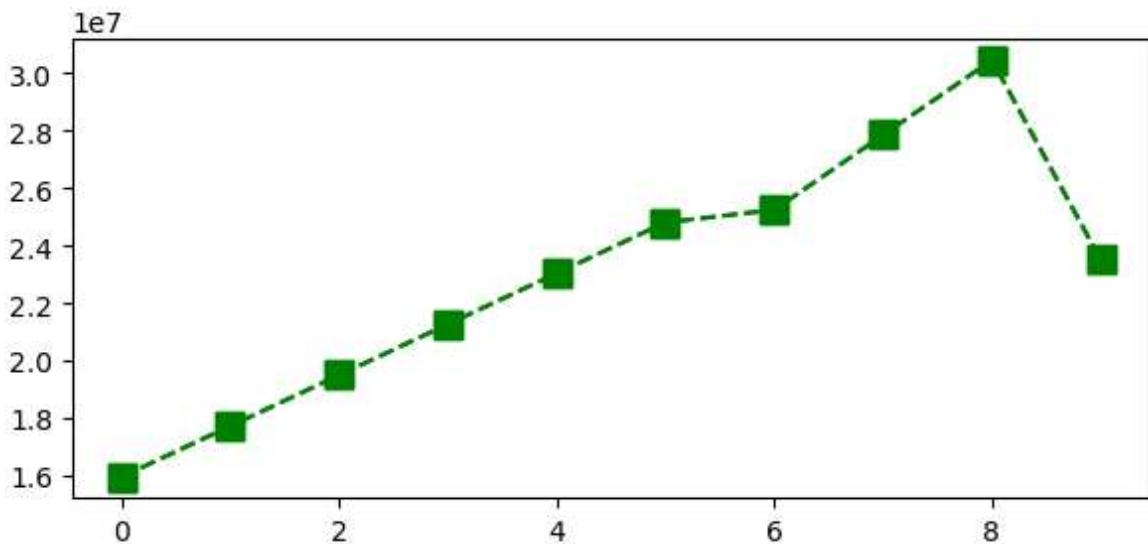
```
In [53]: plt.plot(Salary[0],c='blue' , ls='--')
plt.show()
```



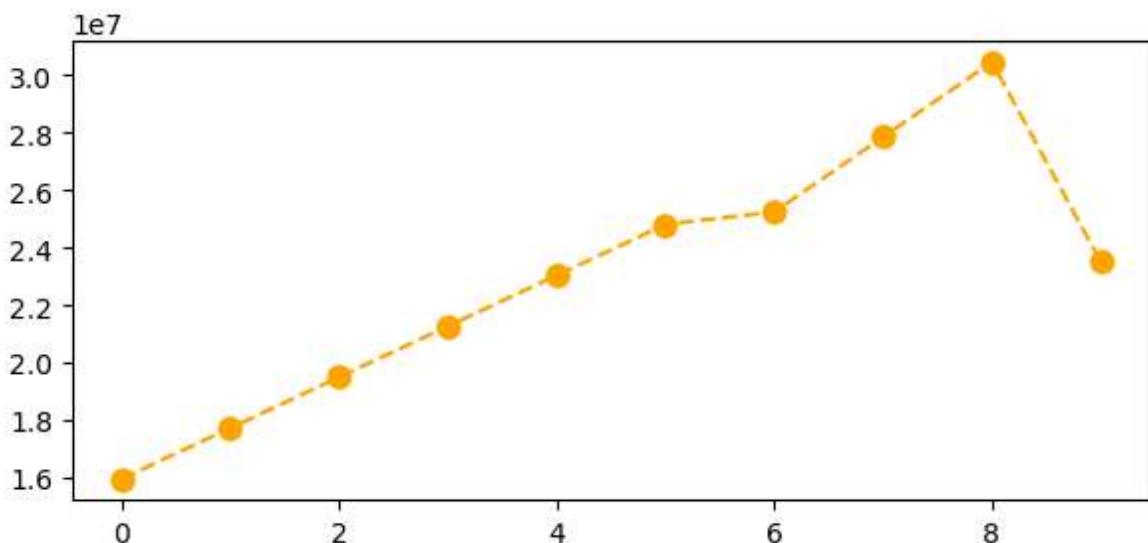
```
In [56]: plt.plot(Salary[0],c='blue' , ls='--' , marker='o')
plt.show()
```



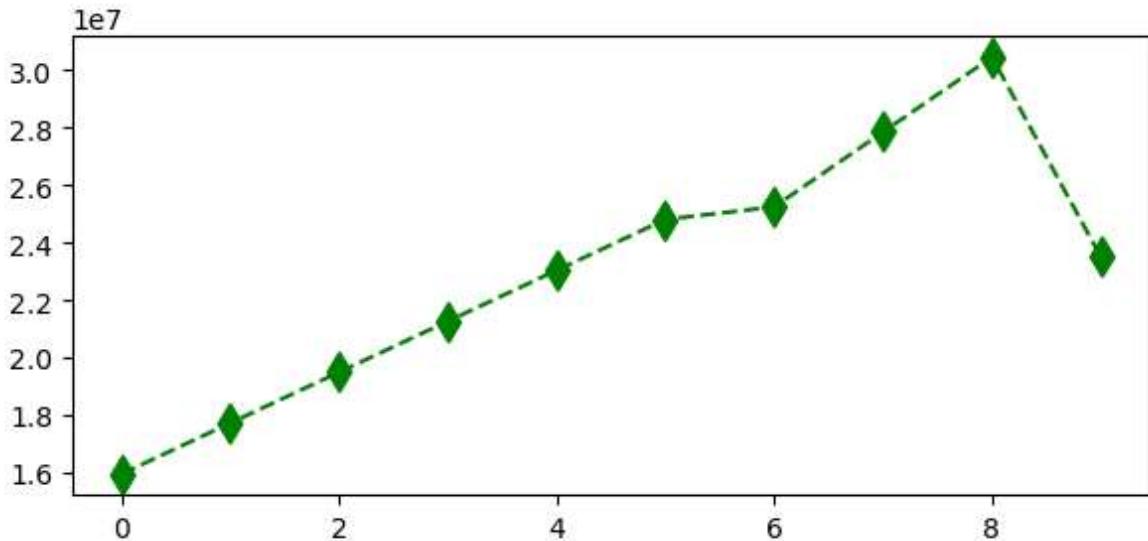
```
In [58]: plt.plot(Salary[0], c='green', ls='--', marker='s', ms=10)  
plt.show()
```



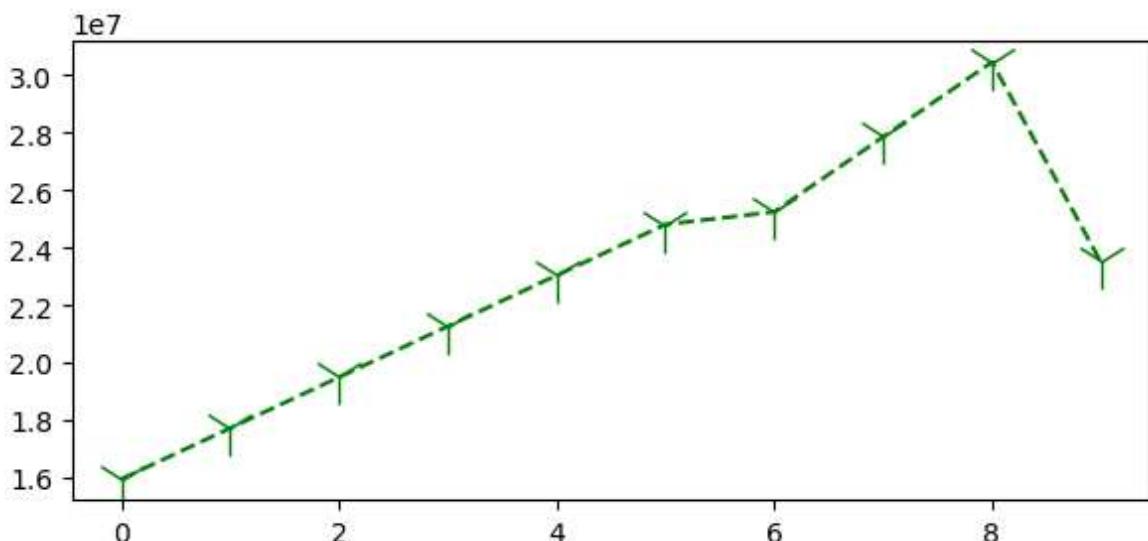
```
In [59]: plt.plot(Salary[0], c='orange', ls='--', marker='o', ms=8)  
plt.show()
```



```
In [60]: plt.plot(Salary[0], c='green', ls='--', marker='d', ms=10)
plt.show()
```



```
In [62]: plt.plot(Salary[0], c='green', ls='--', marker='1', ms=20)
plt.show()
```



```
In [63]: list (range(0,10))
```

```
Out[63]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

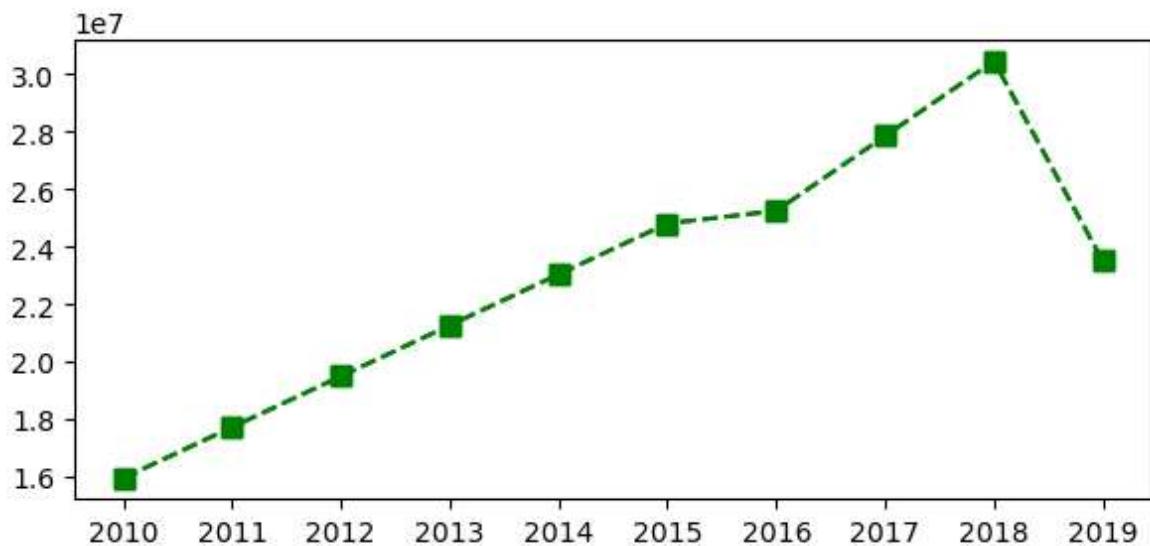
```
In [64]: Sdict
```

```
Out[64]: {'2010': 0,
          '2011': 1,
          '2012': 2,
          '2013': 3,
          '2014': 4,
          '2015': 5,
          '2016': 6,
          '2017': 7,
          '2018': 8,
          '2019': 9}
```

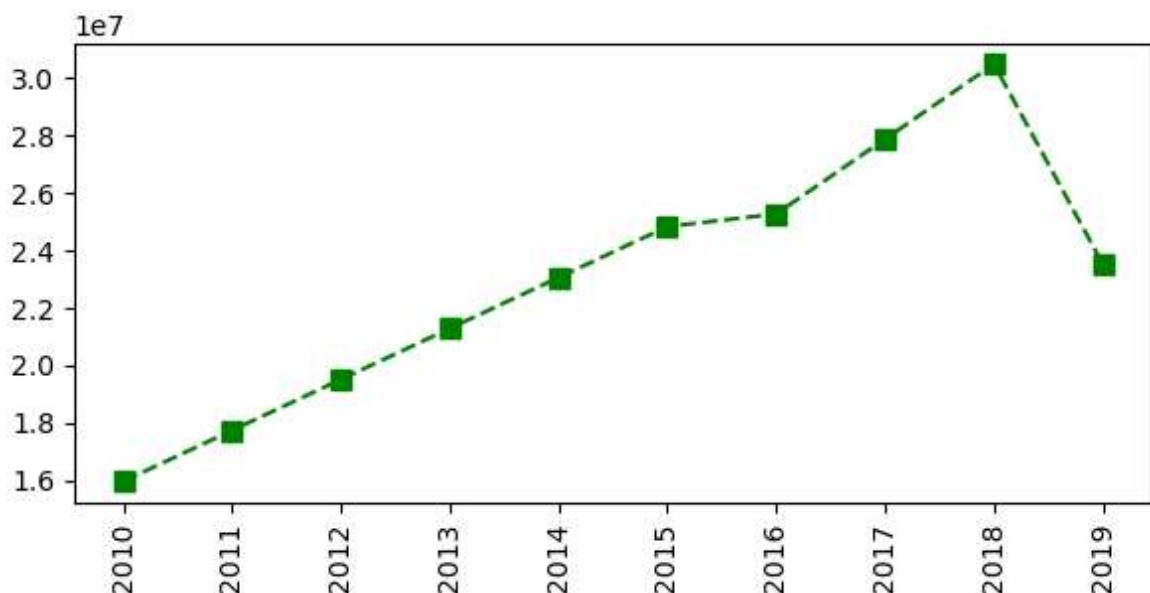
```
In [65]: Pdict
```

```
Out[65]: {'Sachin': 0,  
          'Rahul': 1,  
          'Smith': 2,  
          'Sami': 3,  
          'Pollard': 4,  
          'Morris': 5,  
          'Samson': 6,  
          'Dhoni': 7,  
          'Kohli': 8,  
          'Sky': 9}
```

```
In [67]: plt.plot(Salary[0], c='green', ls='--', marker='s', ms=7)  
plt.xticks(list(range(0,10)),Seasons)  
plt.show()
```



```
In [68]: 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 [69]: Games
```

```
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],  
 [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]])
```

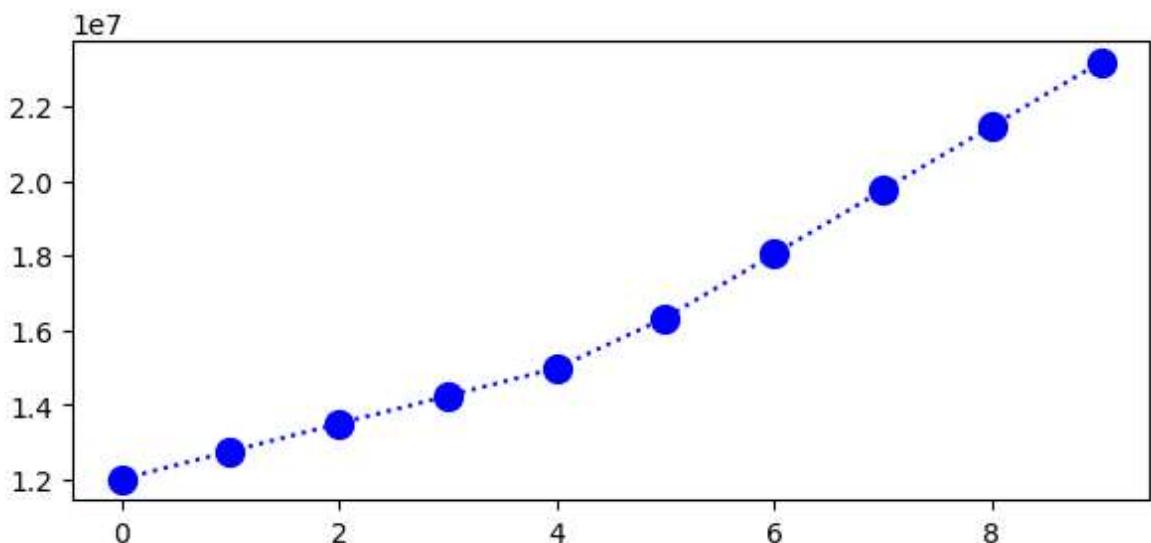
```
In [70]: Salary[0]
```

```
Out[70]: array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,  
 25244493, 27849149, 30453805, 23500000])
```

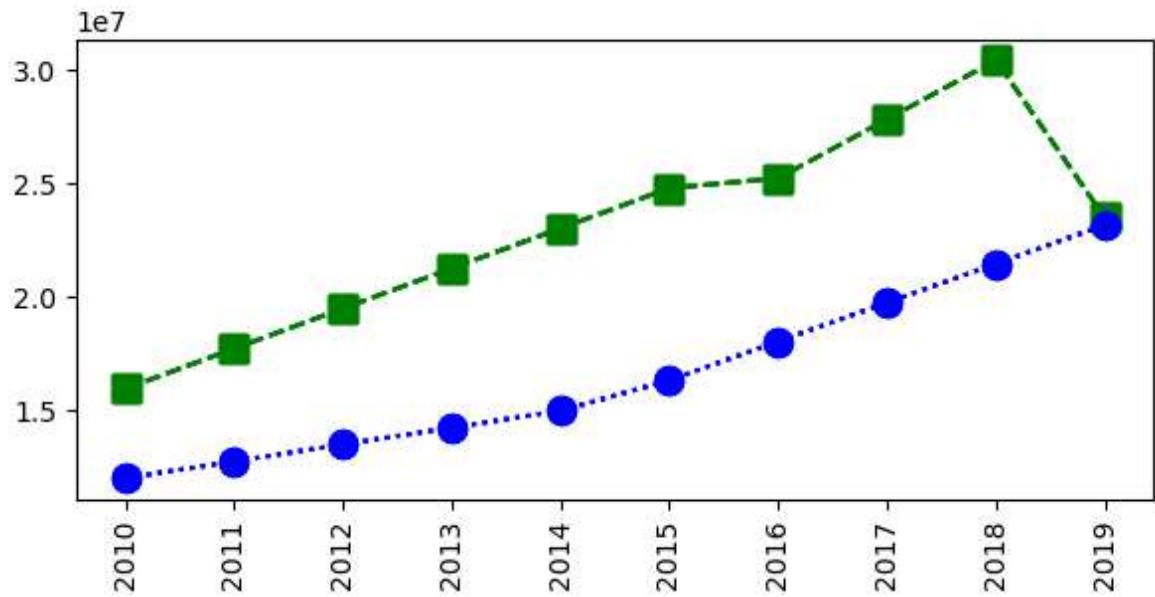
```
In [71]: Salary[1]
```

```
Out[71]: array([12000000, 12744189, 13488377, 14232567, 14976754, 16324500,  
 18038573, 19752645, 21466718, 23180790])
```

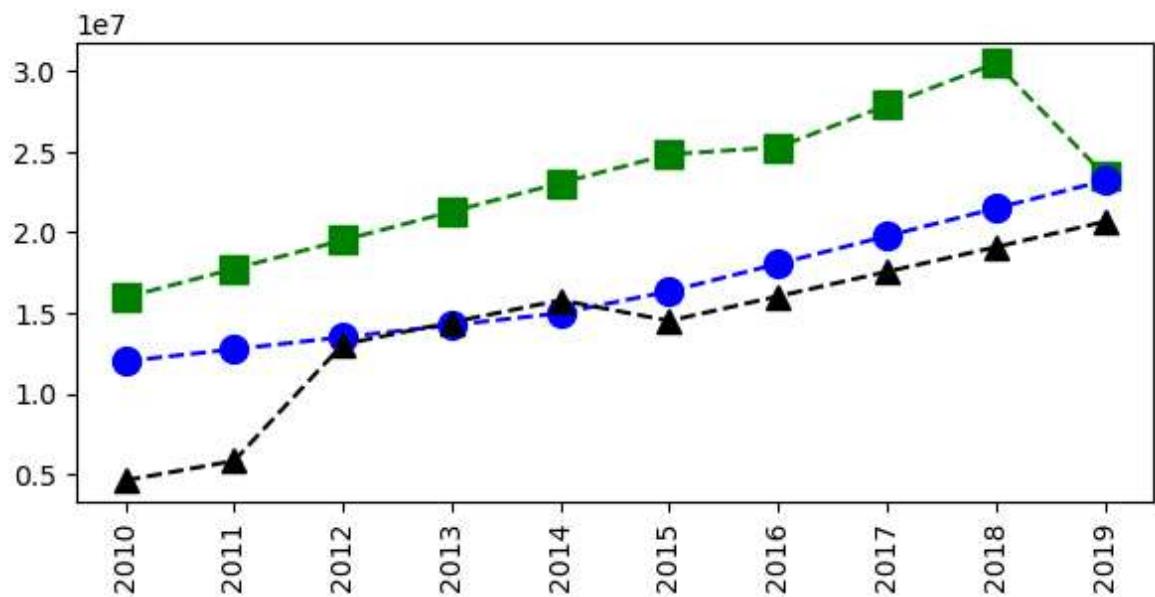
```
In [74]: plt.plot(Salary[1],c='blue', ls=':', marker='o', ms=10, label=Players[1])  
plt.show()
```



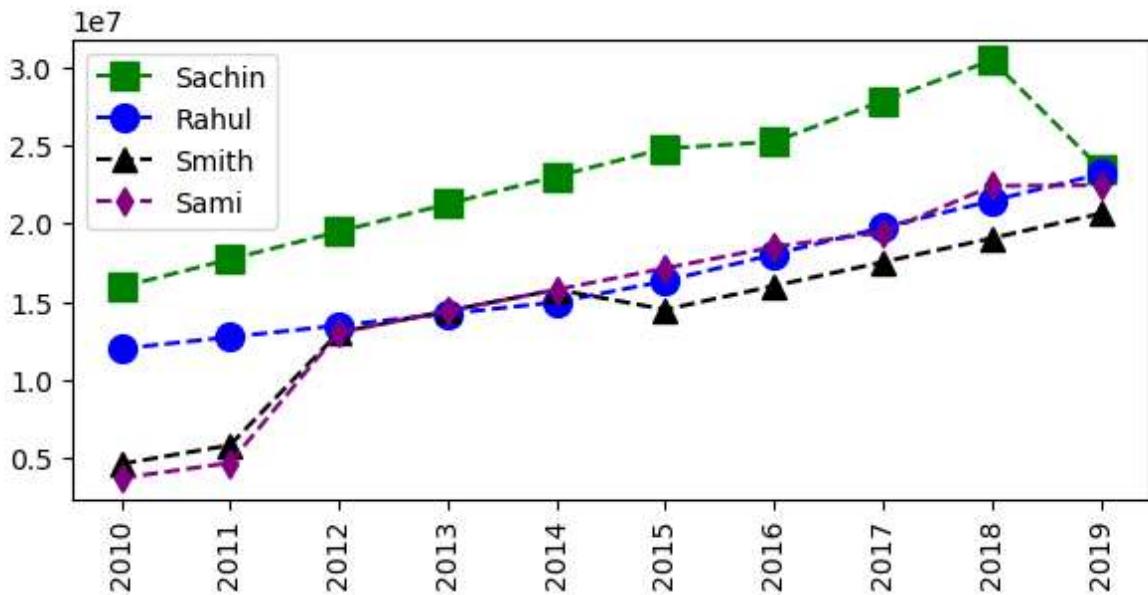
```
In [78]: plt.plot(Salary[0],c='green', ls='--', marker='s', ms=10, label=Players[0])  
plt.plot(Salary[1],c='blue', ls=':', marker='o', ms=10, label=Players[1])  
plt.xticks(list(range(0,10)), Seasons, rotation='vertical')  
plt.show()
```



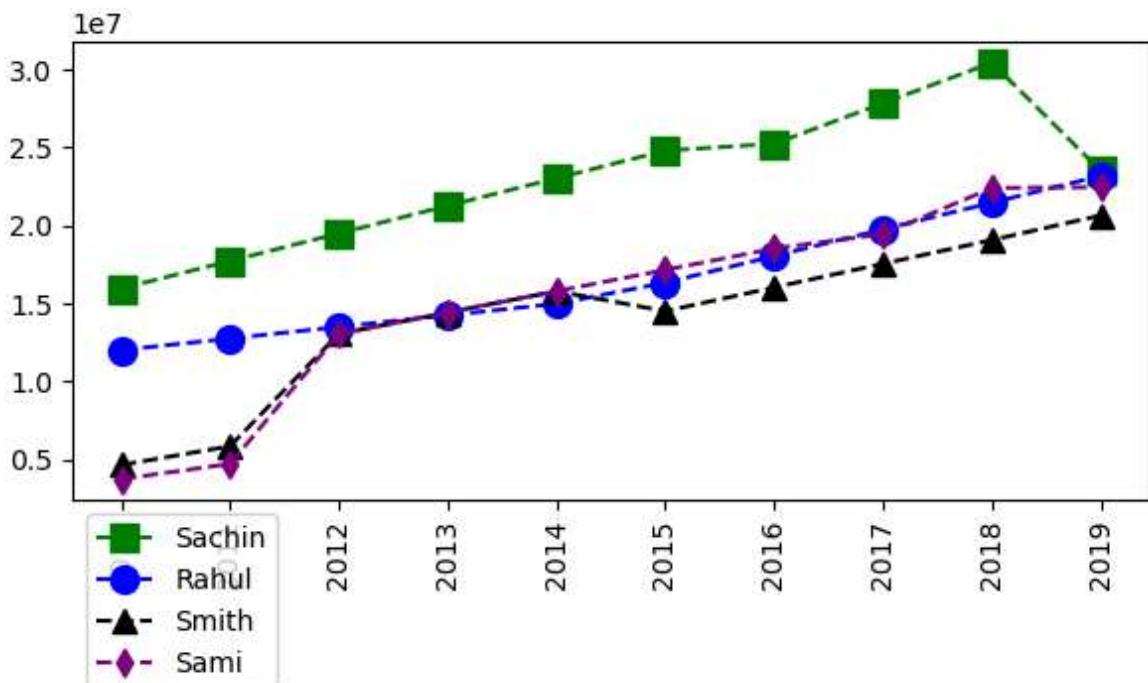
```
In [79]: plt.plot(Salary[0],c='green', ls='--', marker='s', ms=10, label=Players[0])
plt.plot(Salary[1],c='blue', ls='--', marker='o', ms=10, label=Players[1])
plt.plot(Salary[2],c='black',ls='--', marker='^', ms=8,label=Players[2])
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```



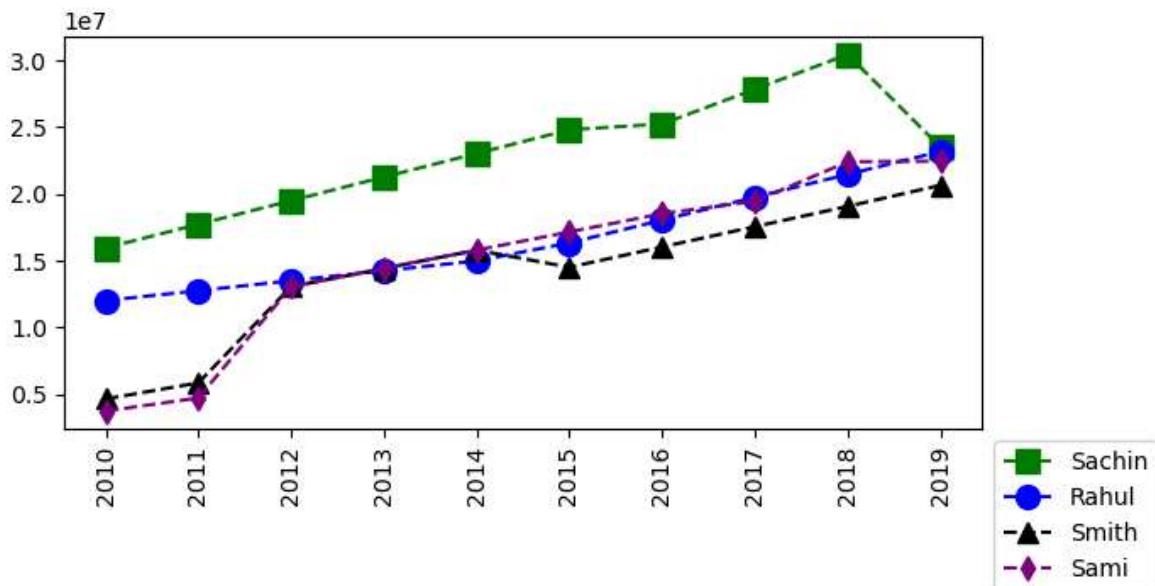
```
In [82]: plt.plot(Salary[0],c='green', ls='--', marker='s', ms=10, label=Players[0])
plt.plot(Salary[1],c='blue', ls='--', marker='o', ms=10, label=Players[1])
plt.plot(Salary[2],c='black',ls='--', marker='^', ms=8,label=Players[2])
plt.plot(Salary[3],c='purple',ls='---', marker='d', ms=7,label=Players[3])
plt.legend()
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```



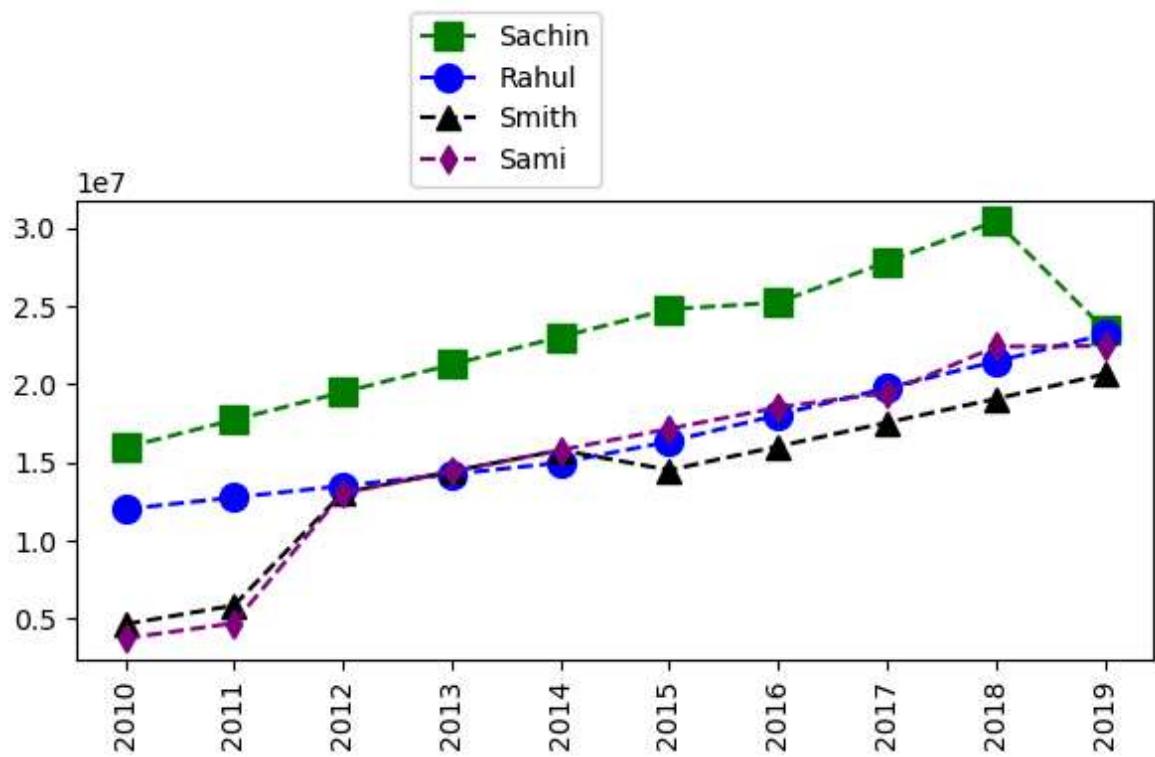
```
In [89]: plt.plot(Salary[0],c='green', ls='--', marker='s', ms=10, label=Players[0])
plt.plot(Salary[1],c='blue', ls='--', marker='o', ms=10, label=Players[1])
plt.plot(Salary[2],c='black',ls='--', marker='^', ms=8,label=Players[2])
plt.plot(Salary[3],c='purple',ls='--', marker='d', ms=7,label=Players[3])
plt.legend(loc='upper left',bbox_to_anchor=(0,0))
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```



```
In [85]: 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.plot(Salary[2],c='black',ls='--', marker='^', ms=8,label=Players[2])
plt.plot(Salary[3],c='purple',ls='--', marker='d', ms=7,label=Players[3])
plt.legend(loc='upper left',bbox_to_anchor=(1,0))
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```

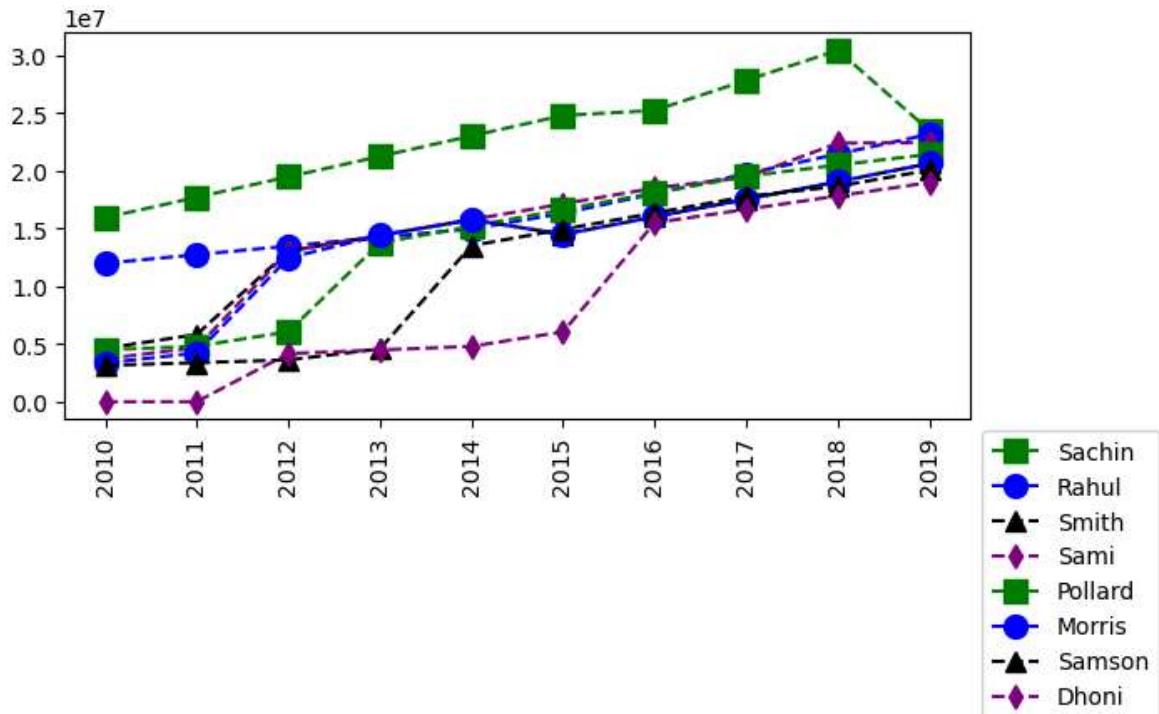


```
In [88]: plt.plot(Salary[0],c='green', ls='--', marker='s', ms=10, label=Players[0])
plt.plot(Salary[1],c='blue', ls='--', marker='o', ms=10, label=Players[1])
plt.plot(Salary[2],c='black',ls='--', marker='^', ms=8,label=Players[2])
plt.plot(Salary[3],c='purple',ls='--', marker='d', ms=7,label=Players[3])
plt.legend(loc='lower ri',bbox_to_anchor=(0.5,1))
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```



```
In [90]: 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.plot(Salary[2],c='black',ls='--', marker='^', ms=8,label=Players[2])
plt.plot(Salary[3],c='purple',ls='--', marker='d', ms=7,label=Players[3])
plt.plot(Salary[4],c='green', ls='--', marker='s', ms=10, label=Players[4])
plt.plot(Salary[5],c='blue', ls='--', marker='o', ms=10, label=Players[5])
plt.plot(Salary[6],c='black',ls='--', marker='^', ms=8,label=Players[6])
plt.plot(Salary[7],c='purple',ls='--', marker='d', ms=7,label=Players[7])
plt.legend(loc='upper left',bbox_to_anchor=(1,0))
```

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



In [ ]:

In [ ]: