

```

In [3]: #Import numpy
import numpy as np

#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", "
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 [5]: Salary

```

```
Out[5]: 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 [7]: Games

```
Out[7]: array([[80, 77, 82, 82, 73, 82, 58, 78,  6, 35],
               [82, 57, 82, 79, 76, 72, 60, 72, 79, 80],
               [79, 78, 75, 81, 76, 79, 62, 76, 77, 69],
               [80, 65, 77, 66, 69, 77, 55, 67, 77, 40],
               [82, 82, 82, 79, 82, 78, 54, 76, 71, 41],
               [70, 69, 67, 77, 70, 77, 57, 74, 79, 44],
               [78, 64, 80, 78, 45, 80, 60, 70, 62, 82],
               [35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
               [40, 40, 40, 81, 78, 81, 39,  0, 10, 51],
               [75, 51, 51, 79, 77, 76, 49, 69, 54, 62]])
```

In [9]: Points

```
Out[9]: 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 [19]: *# INDEXING AND SLICING THE GAMES VALUES*

In [21]: Games[0] *# returns the 0th row*

```
Out[21]: array([80, 77, 82, 82, 73, 82, 58, 78,  6, 35])
```

In [25]: Games[5] *# returns the 5th row*

```
Out[25]: array([70, 69, 67, 77, 70, 77, 57, 74, 79, 44])
```

In [31]: Games[0:5] *# returns rows from 0 to 4 (n-1=5-1=4)*

```
Out[31]: 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 [33]: Games[0,5] # this returns the 0th row, 5th column value
```

```
Out[33]: 82
```

```
In [35]: Games[0:2] # returns rows from 0 to 1 (n-1=2-1=1)
```

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

```
In [37]: Games[2,8] # this returns the 2nd row, 8th column value
```

```
Out[37]: 77
```

```
In [39]: Games[-3:-1] # return rows from -3 to -2 (n-1=-1-1=-2)
```

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

```
In [41]: Games[-3,-1] # this returns the -3rd row, -1st column value
```

```
Out[41]: 27
```

```
In [43]: # INDEXING AND SLICING THE POINTS VALUES
```

```
In [45]: Points
```

```
Out[45]: 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 [47]: Points[0] # returns the 0th row
```

```
Out[47]: array([2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133, 83, 782])
```

```
In [49]: Points[6,1] # this returns the 6th row, 1st column value
```

```
Out[49]: 1104
```

```
In [51]: Points[3:6] # returns rows from 3 to 5 (n-1=6-1=5)
```

```
Out[51]: 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 [53]: Points[-6,-1] # this returns the -6th row, -1st column value
```

Out[53]: 646

VISUALIZATIONS

```
In [56]: import warnings
warnings.filterwarnings('ignore')
```

```
In [62]: import numpy as np
import matplotlib.pyplot as plt
```

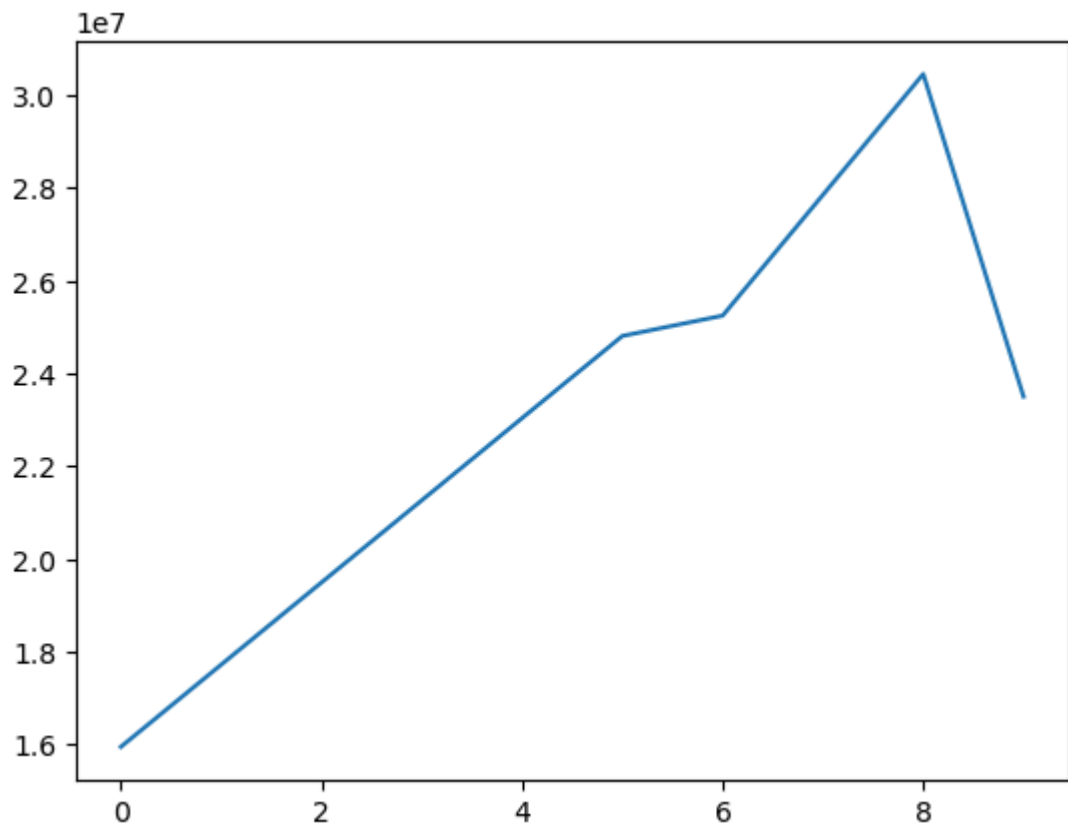
```
In [64]: %matplotlib inline
```

```
In [66]: Salary
```

```
Out[66]: 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 [68]: # PLOTTING THE SALARY VALUES OF THE PLAYER
```

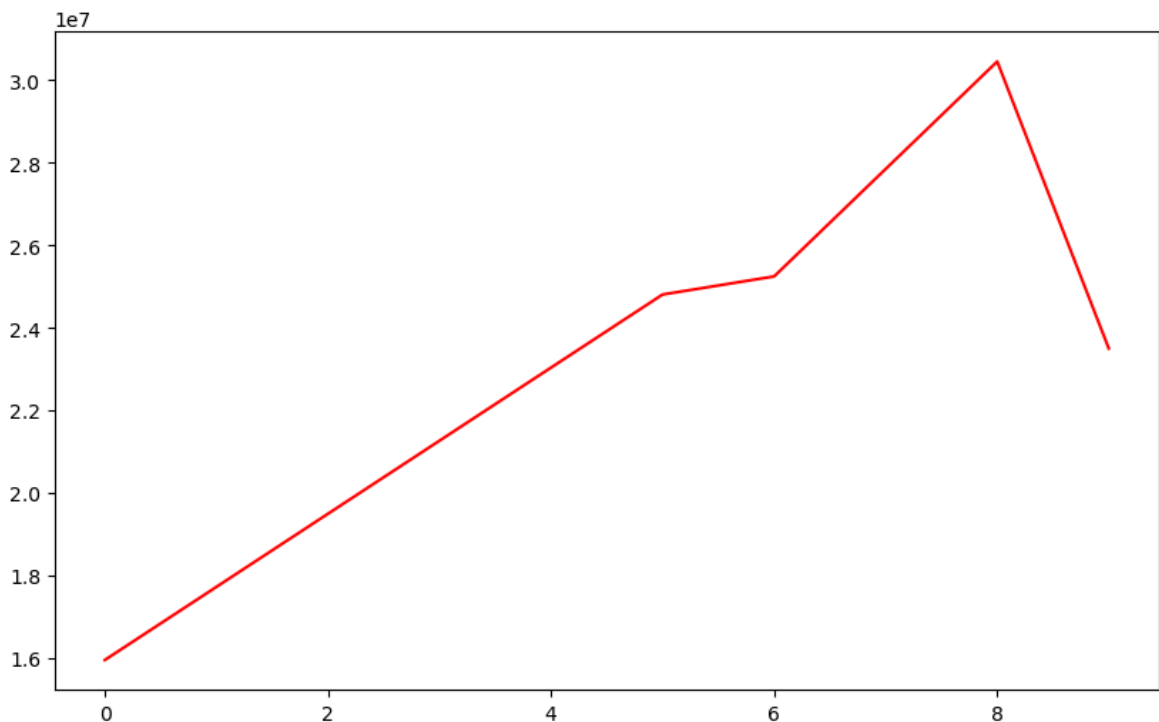
```
In [74]: plt.plot(Salary[0]) # this plots the salary of the 1st player, from 2014-2024
plt.show()
```



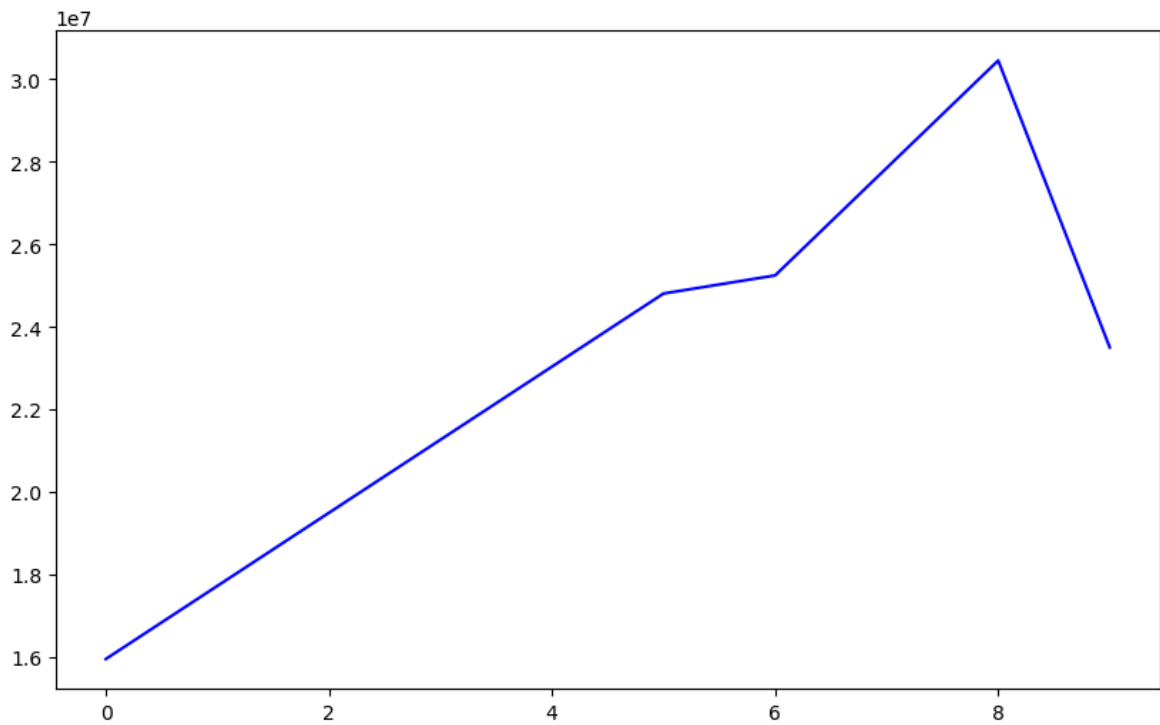
In [212...] *# CHANGING THE COLOUR OF THE LINE PLOT*

In [214...] `plt.rcParams['figure.figsize'] = 10,6` *# this changes the size of the plot*

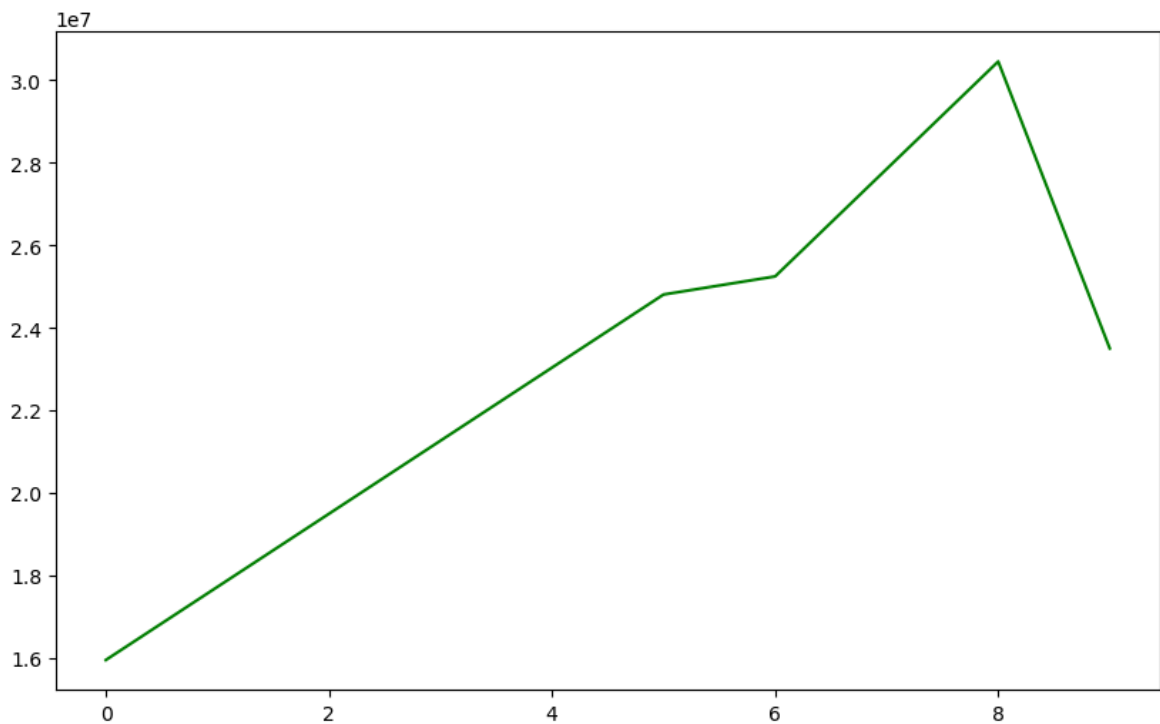
In [216...] `plt.plot(Salary[0], c = 'red')` *## this plots the salary of the 1st player, from*
`plt.show()` *# this changes the colour of the plot*



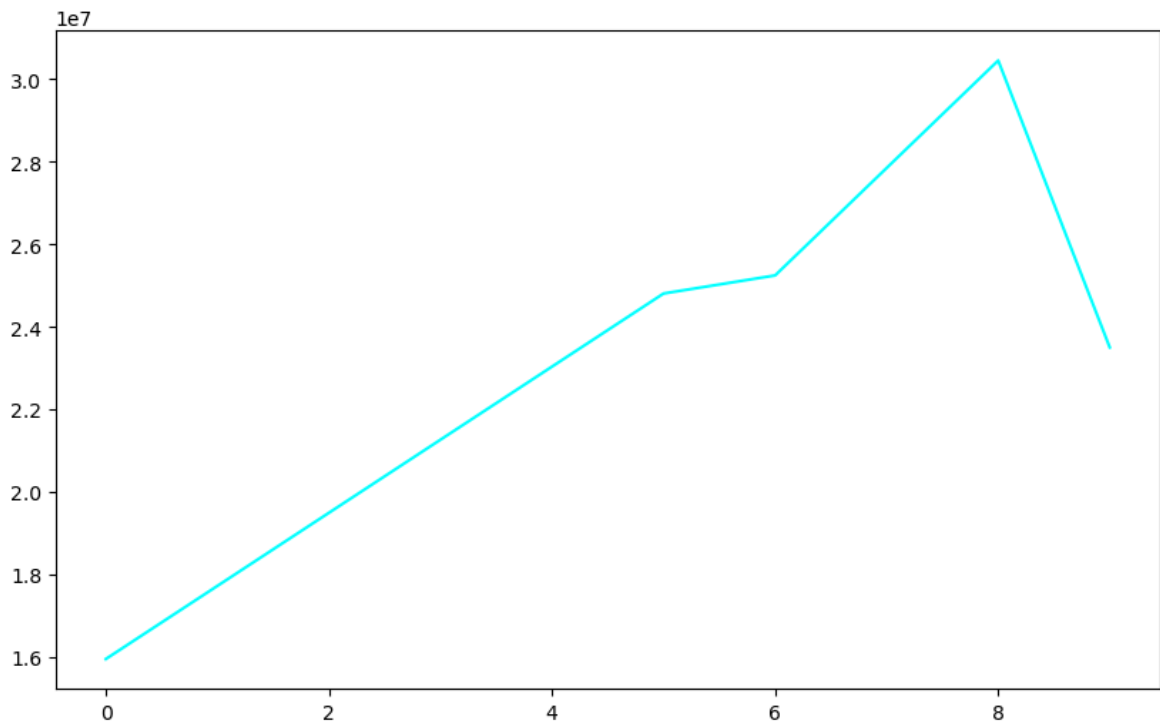
In [218...] `plt.plot(Salary[0], c = 'Blue')` *## this plots the salary of the 1st player, from*
`plt.show()` *# this changes the colour of the plot*



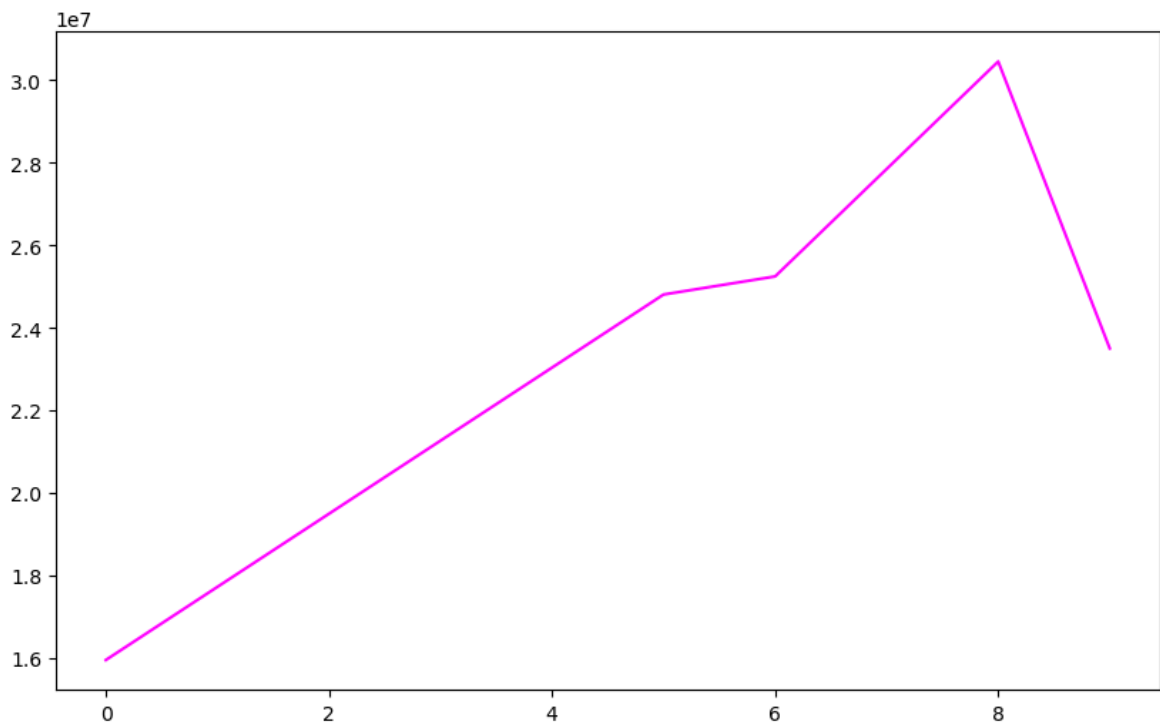
```
In [220... plt.plot(Salary[0], c = 'green') ## this plots the salary of the 1st player, fr  
plt.show() # this changes the colour of the plot
```



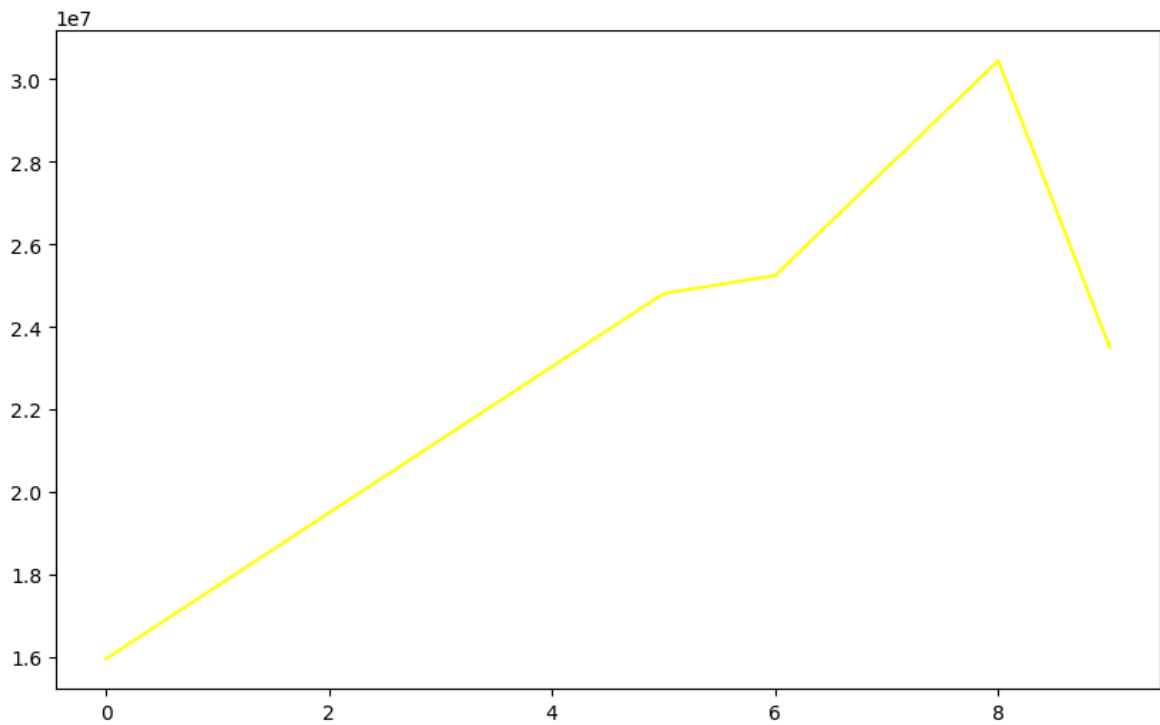
```
In [222... plt.plot(Salary[0], c = 'cyan') ## this plots the salary of the 1st player, fro  
plt.show() # this changes the colour of the plot
```



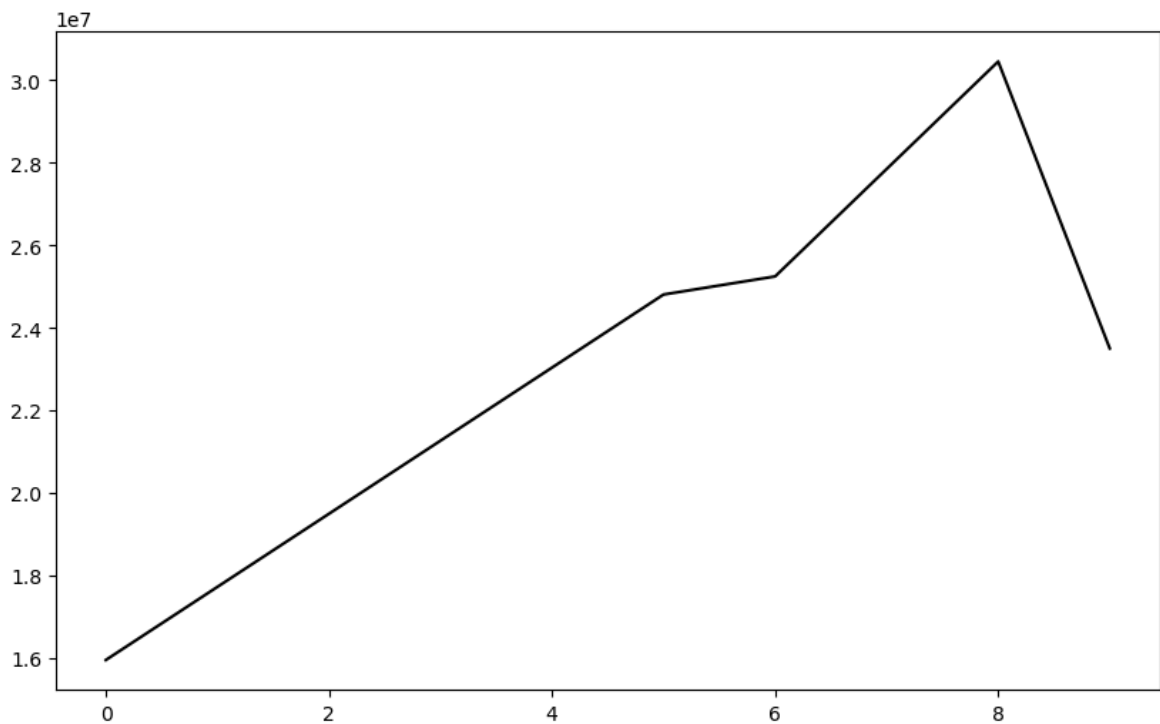
```
In [224... plt.plot(Salary[0], c = 'magenta') ## this plots the salary of the 1st player,
plt.show() # this changes the colour of the plot
```



```
In [226... plt.plot(Salary[0], c = 'yellow') ## this plots the salary of the 1st player, f
plt.show() # this changes the colour of the plot
```

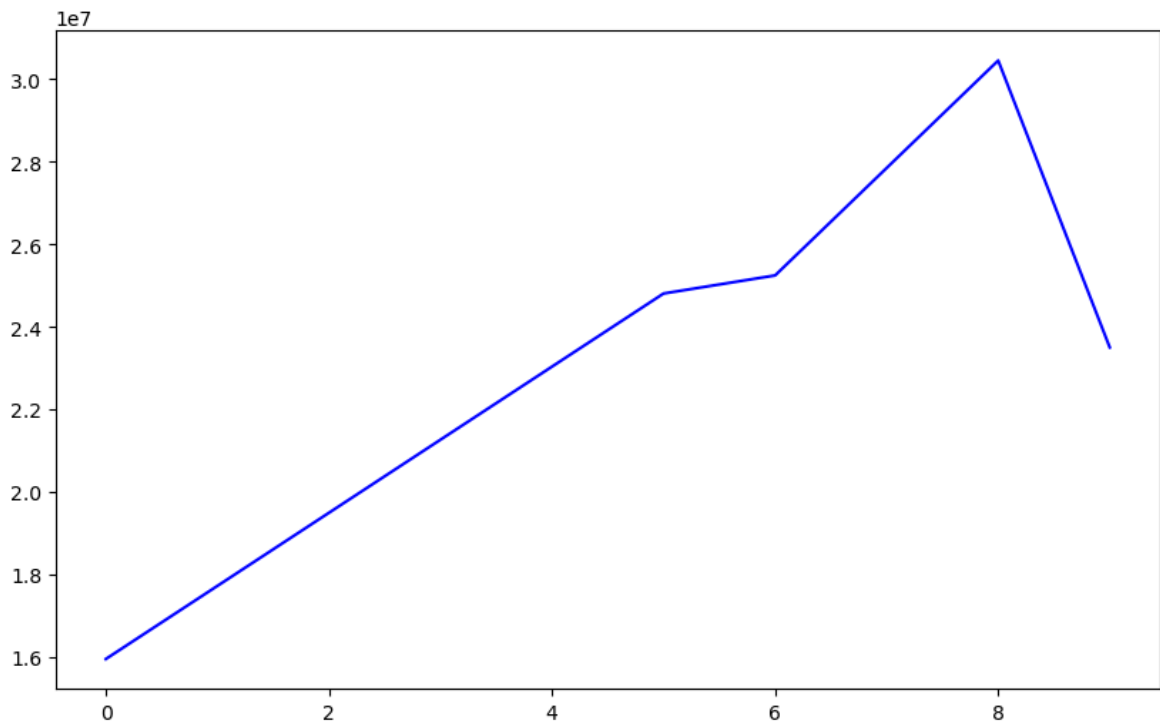


```
In [228... plt.plot(Salary[0], c = 'black') ## this plots the salary of the 1st player, fr  
plt.show() # this changes the colour of the plot
```

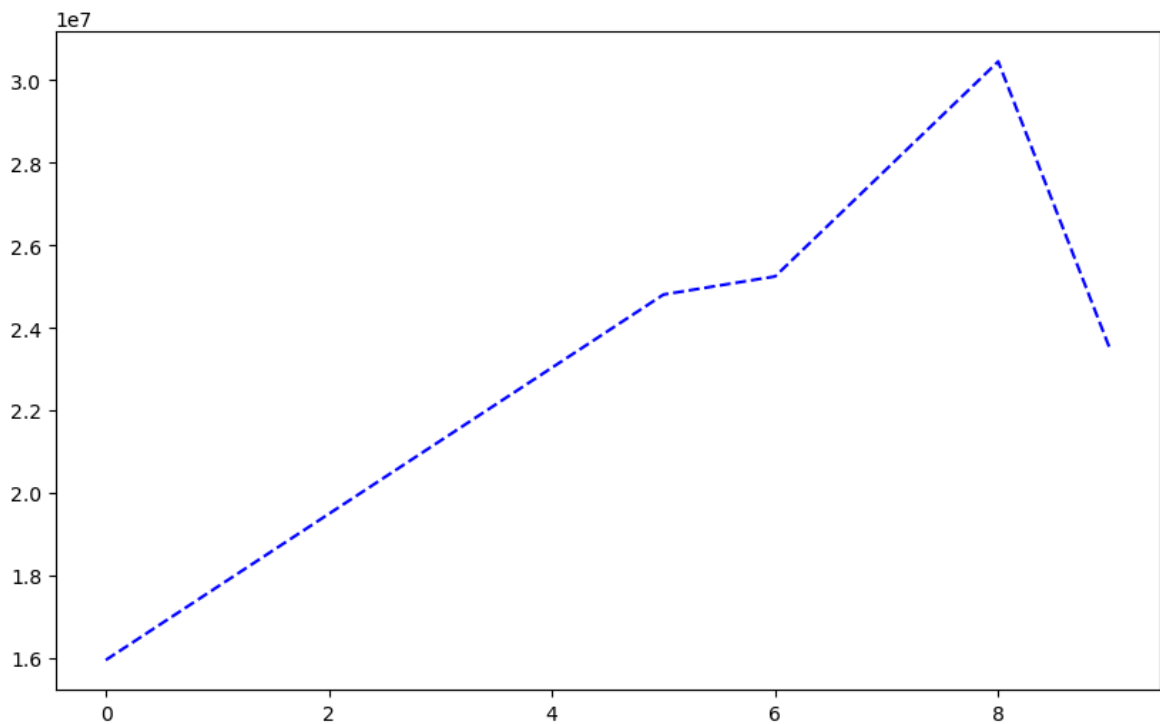


```
In [ ]: # CHANGING THE LINE STYLE OF THE PLOT
```

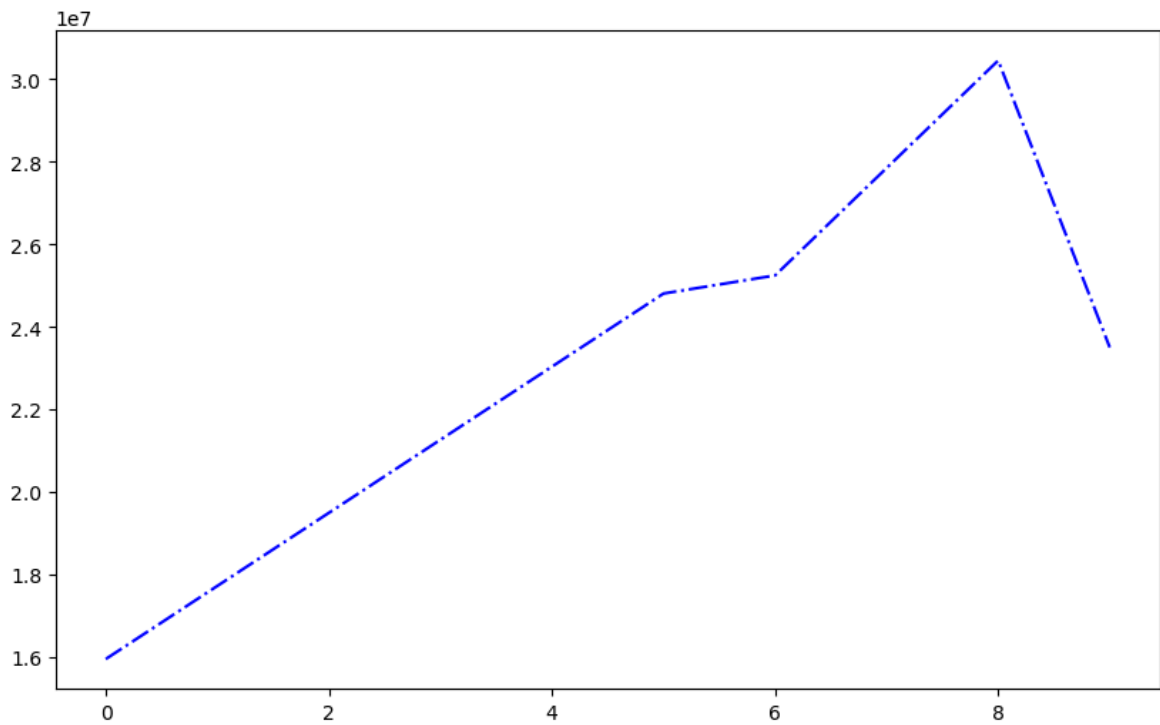
```
In [236... plt.plot(Salary[0], c = 'Blue', ls = '-') ## this plots the salary of the 1st p  
plt.show() # this changes the colour of the plot, and also the line style of t
```

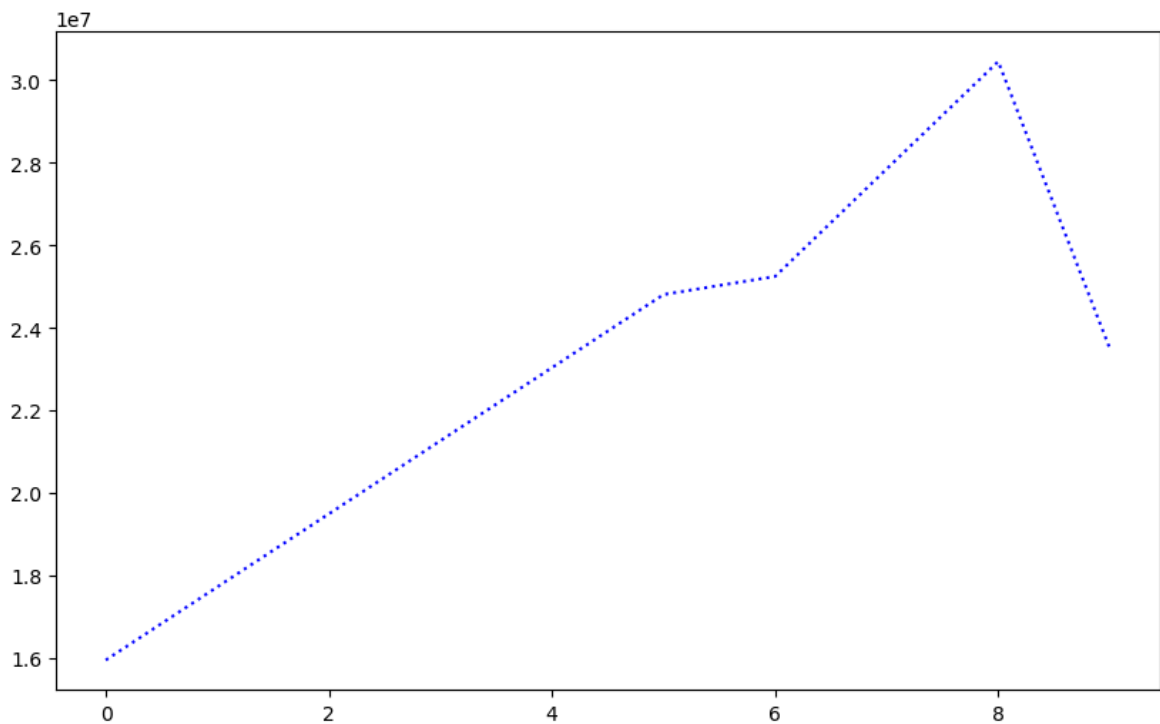
In [238... `plt.plot(Salary[0], c = 'Blue', ls = '--')` # # this plots the salary of the 1st
`plt.show()` # this changes the colour of the plot, and also the line style of t



In [242... `plt.plot(Salary[0], c = 'Blue', ls = '-.')` # # this plots the salary of the 1st
`plt.show()` # this changes the colour of the plot, and also the line style of t

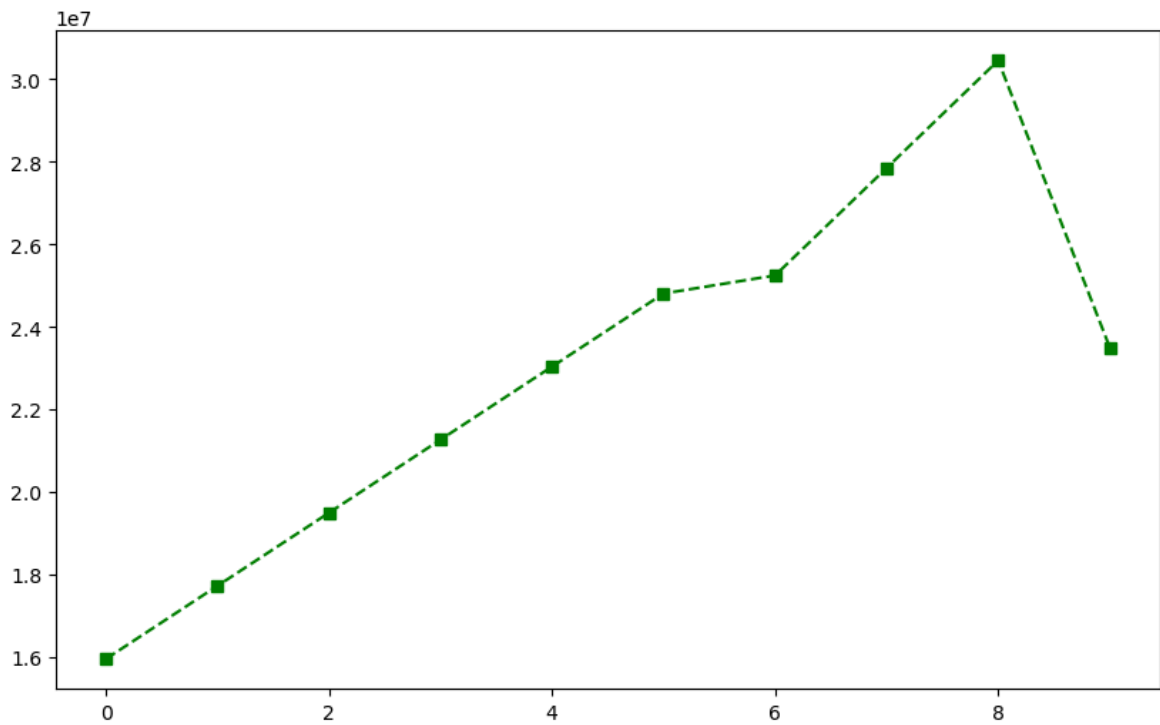


In [244... `plt.plot(Salary[0], c = 'Blue', ls = ':')` ## this plots the salary of the 1st p
`plt.show()` # this changes the colour of the plot, and also the line style of t

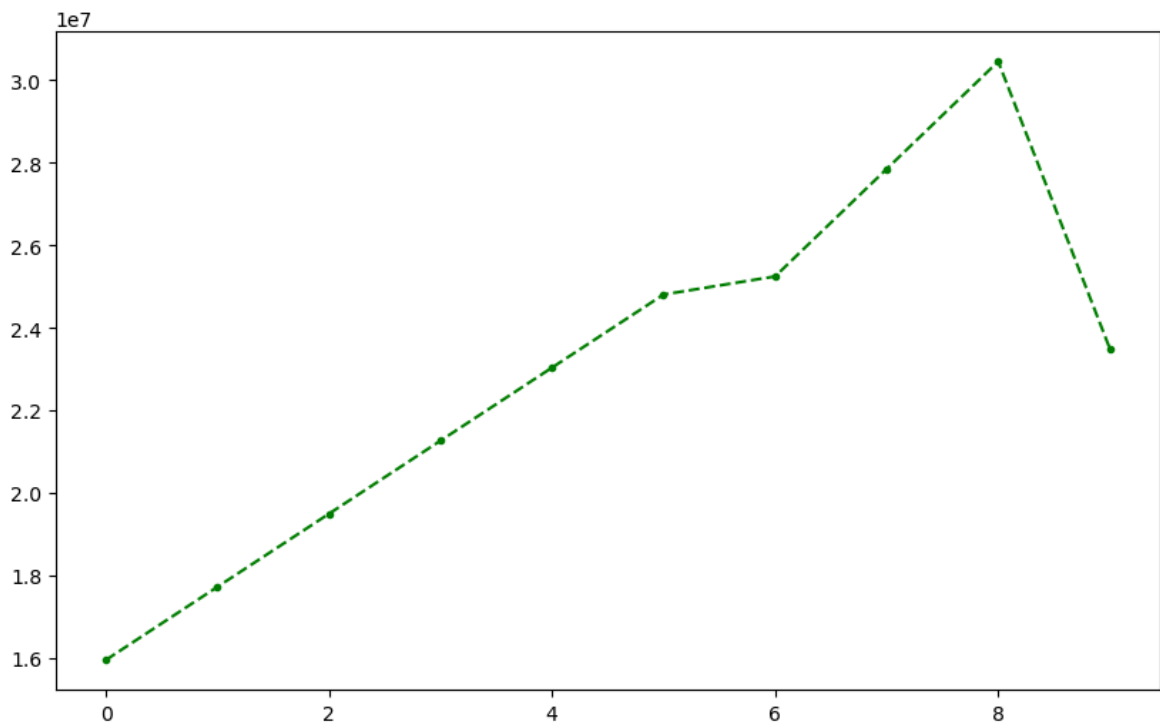


In [246... # CHANGING THE MARKER STYLE FOR EACH YEAR

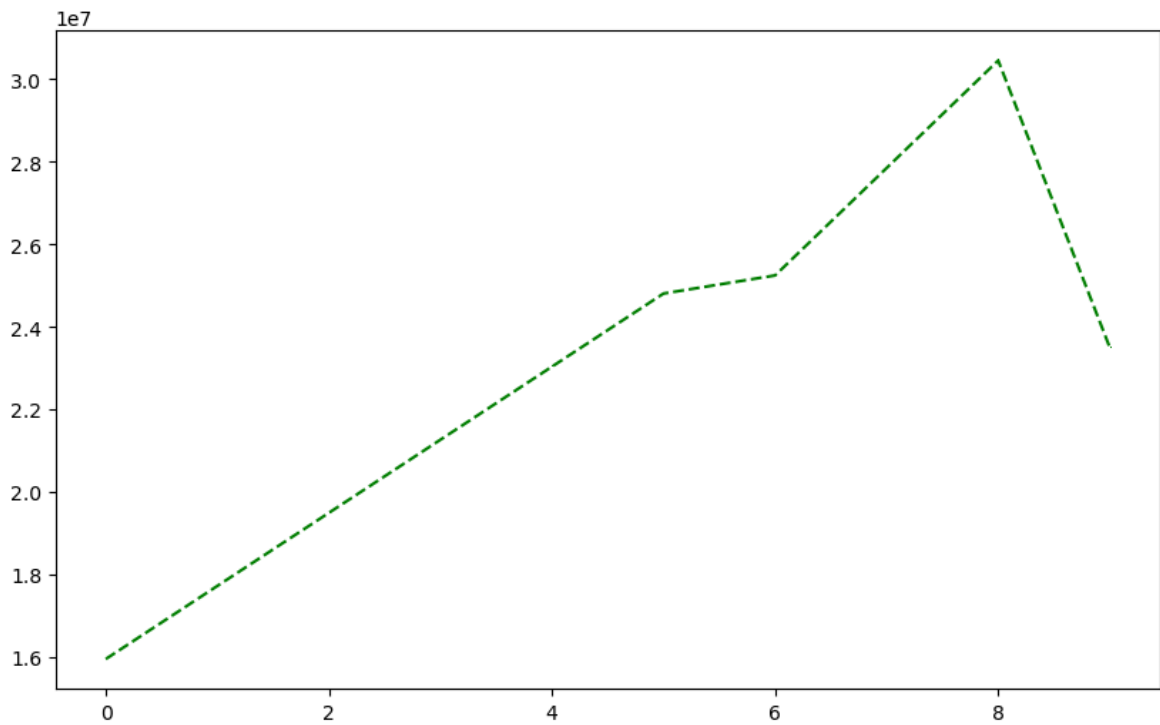
In [100... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 's')` ## this plots the sal
`plt.show()` # this changes the colour of the plot, line style of the plot, adds



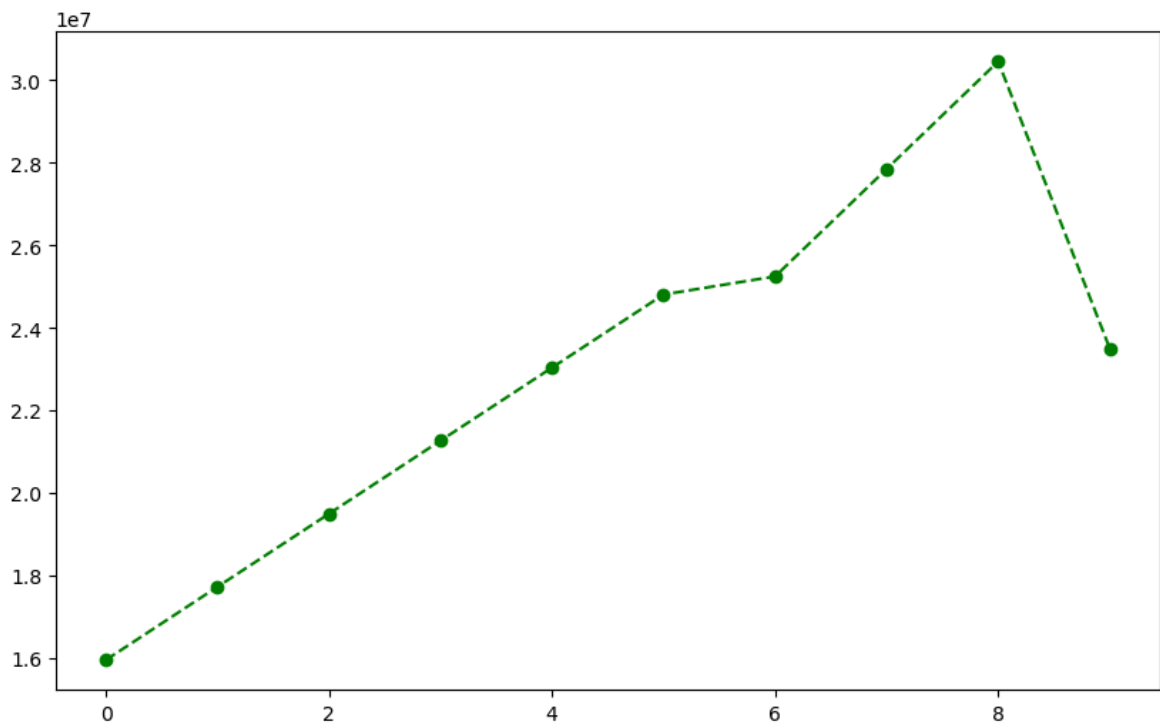
In [250... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = '.')` ## this plots the sal
`plt.show()` # this changes the colour of the plot, line style of the plot, adds



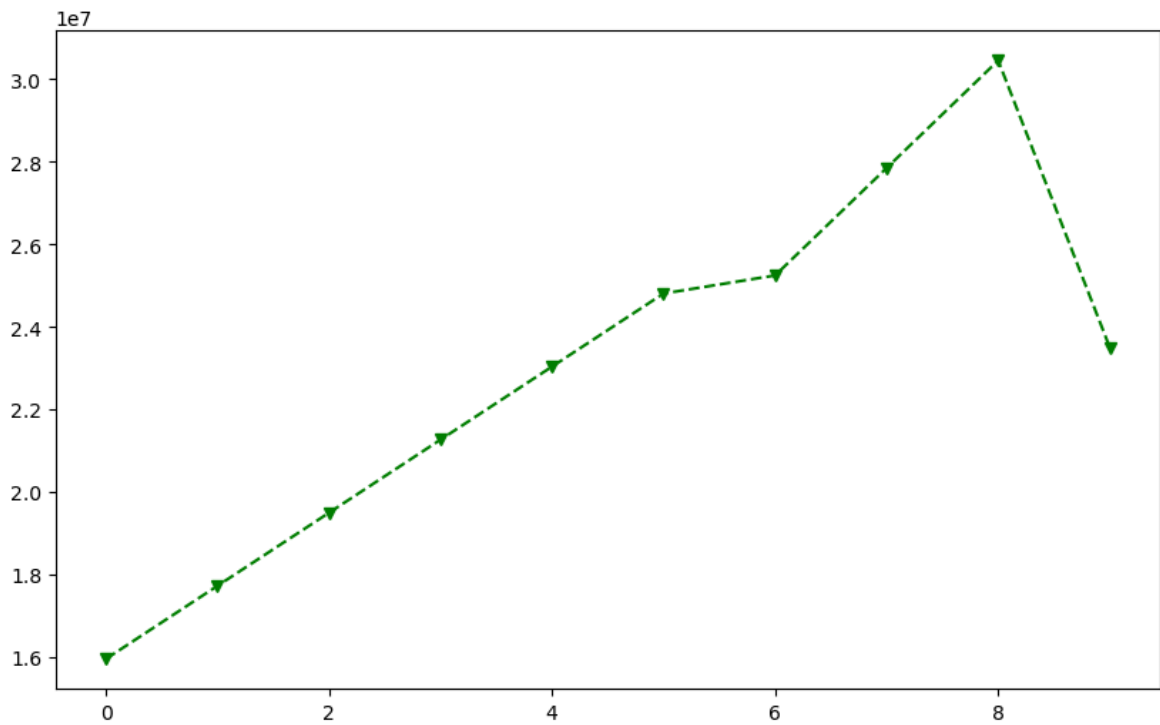
In [252... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = ',')` ## this plots the sal
`plt.show()` # this changes the colour of the plot, line style of the plot, adds



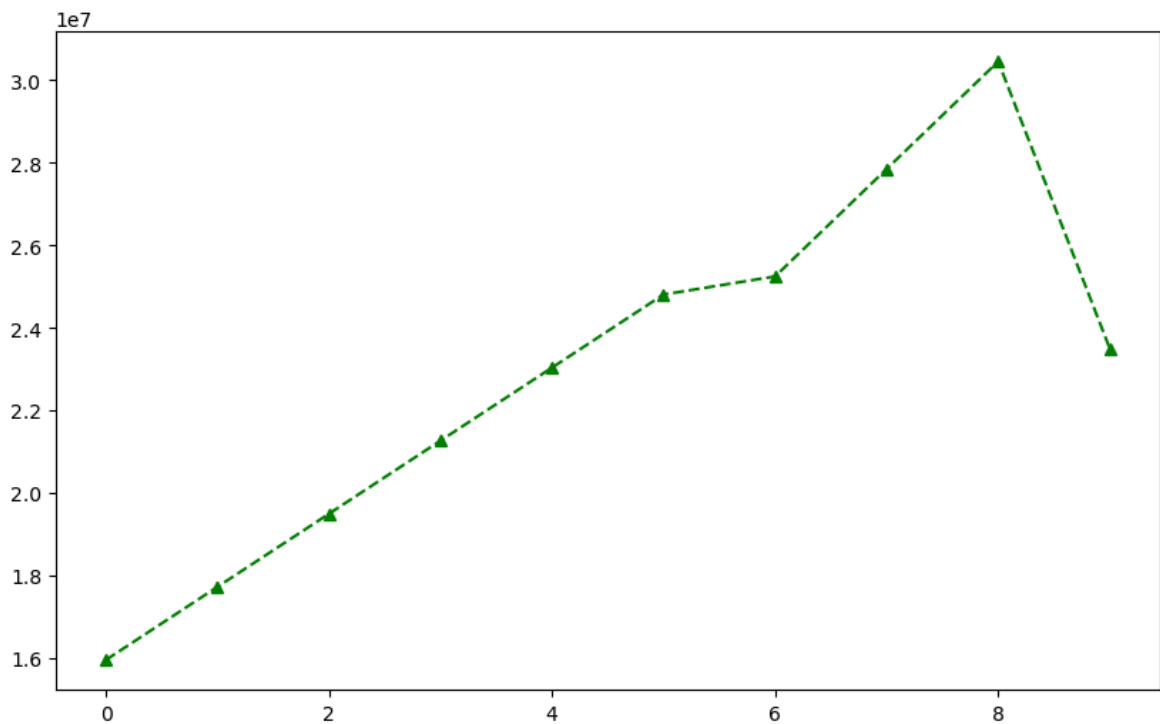
In [254... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'o') ## this plots the sal`
`plt.show() # this changes the colour of the plot, line style of the plot, adds`



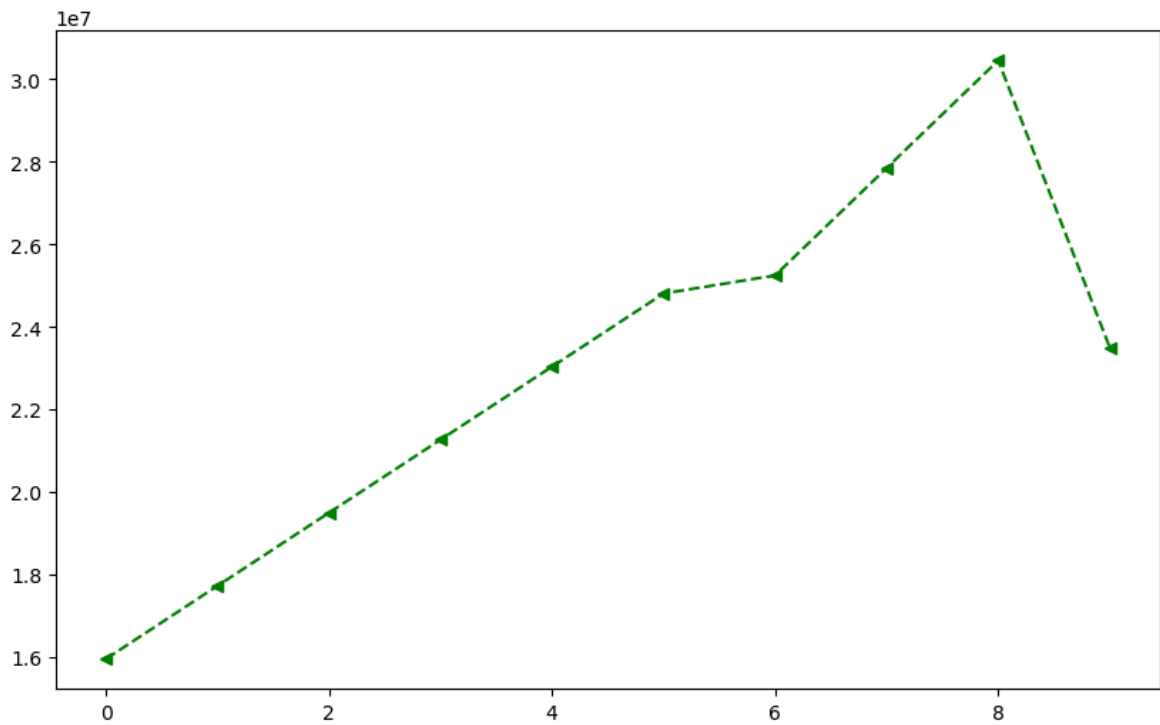
In [256... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'v') ## this plots the sal`
`plt.show() # this changes the colour of the plot, line style of the plot, adds`



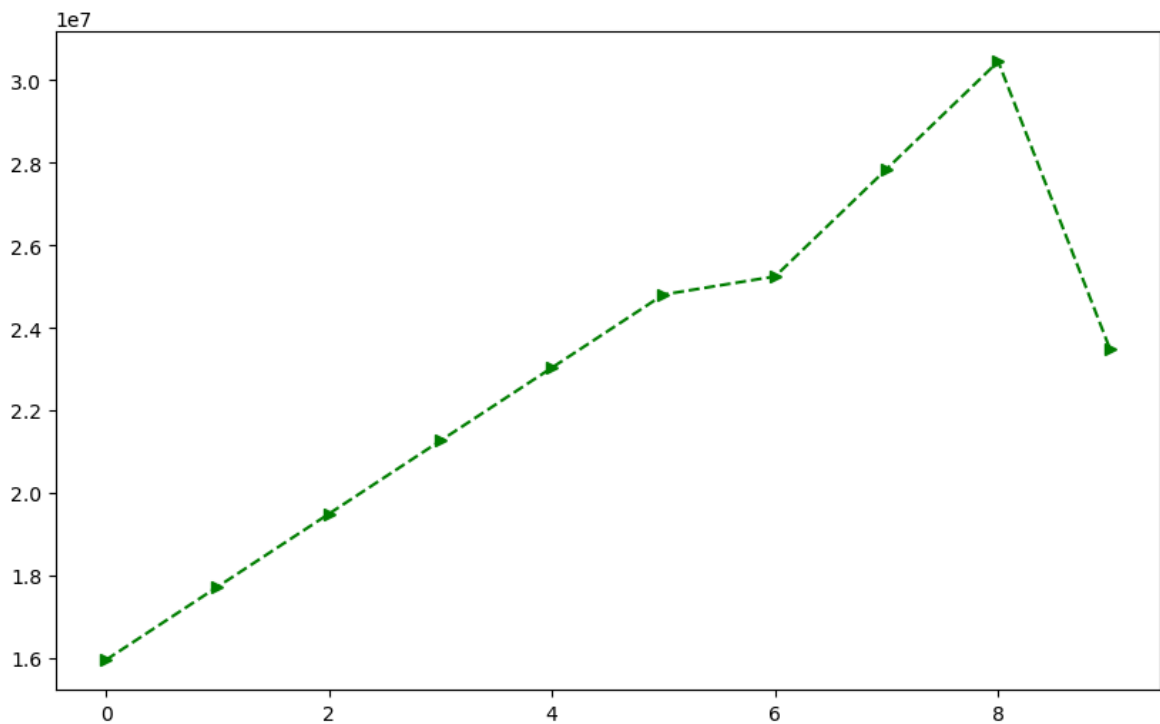
In [258... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = '^') ## this plots the sal`
`plt.show() # this changes the colour of the plot, line style of the plot, adds`



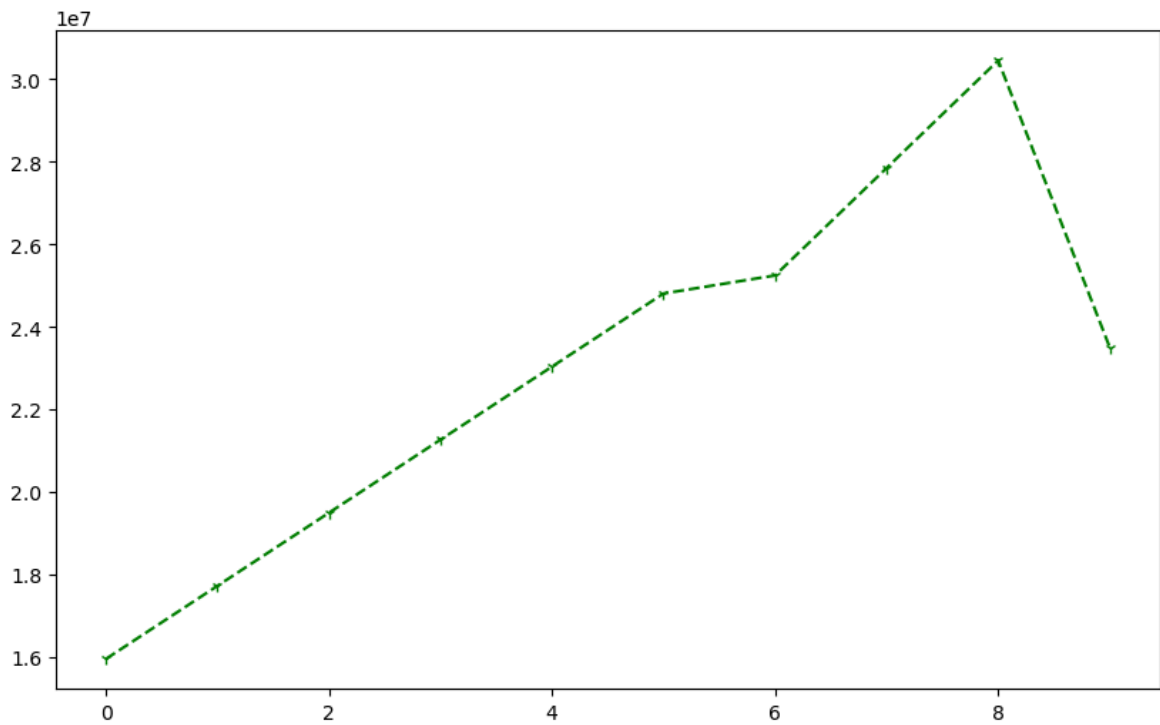
In [260... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = '<') ## this plots the sal`
`plt.show() # this changes the colour of the plot, line style of the plot, adds`



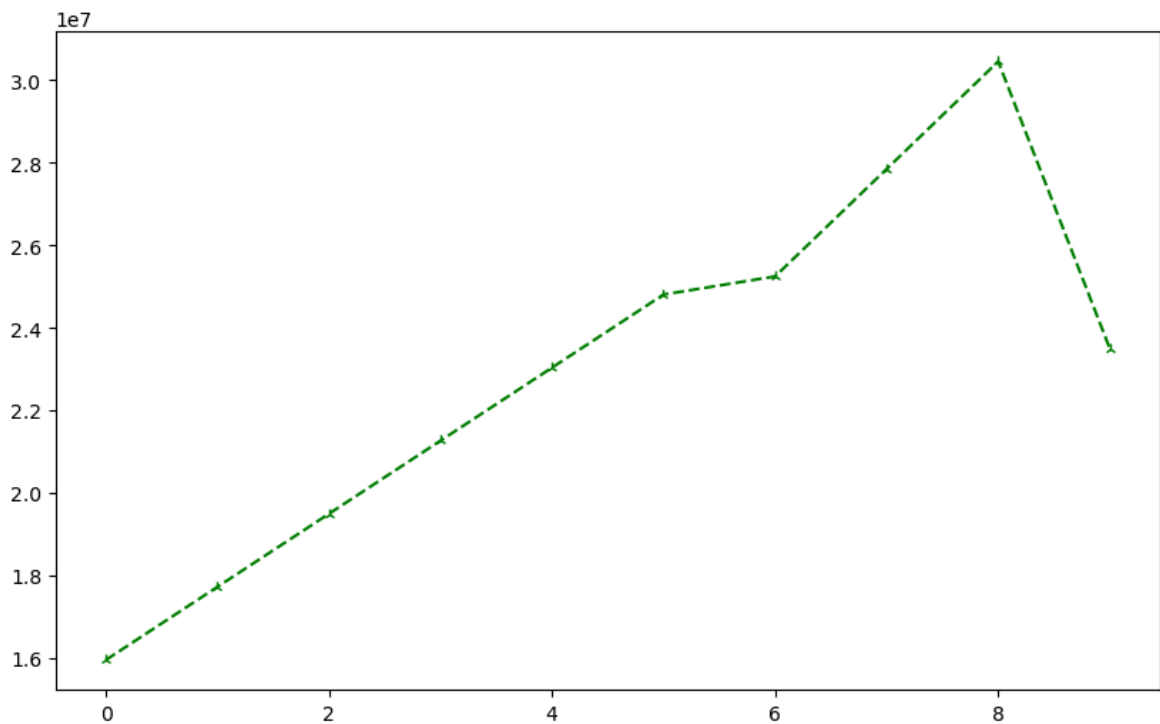
In [262... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = '>') ## this plots the sal`
`plt.show() # this changes the colour of the plot, line style of the plot, adds`



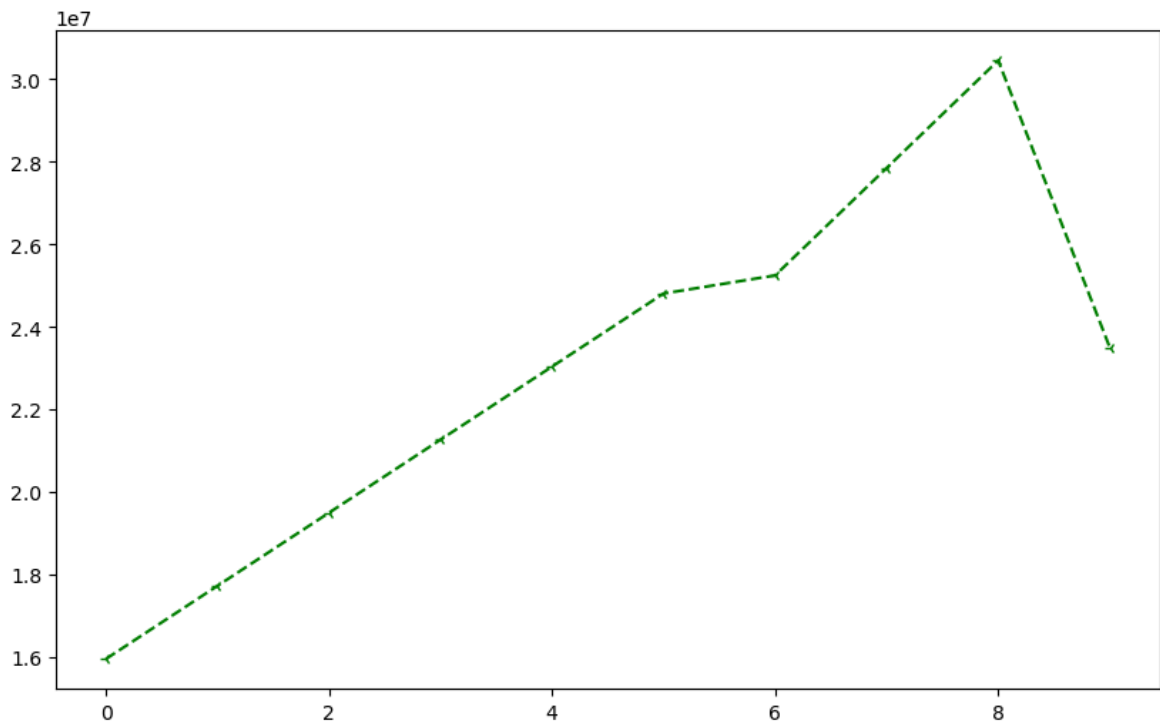
In [264... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = '1') ## this plots the sal`
`plt.show() # this changes the colour of the plot, line style of the plot, adds`



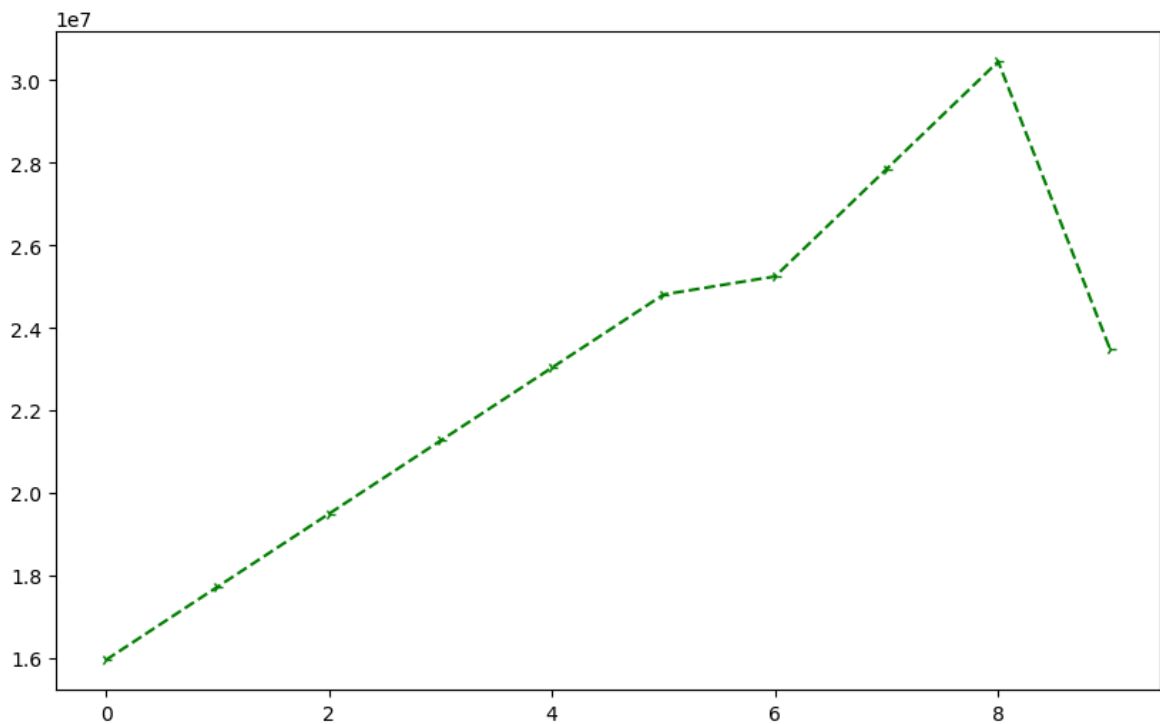
In [266... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'x') ## this plots the sal`
`plt.show() # this changes the colour of the plot, line style of the plot, adds`



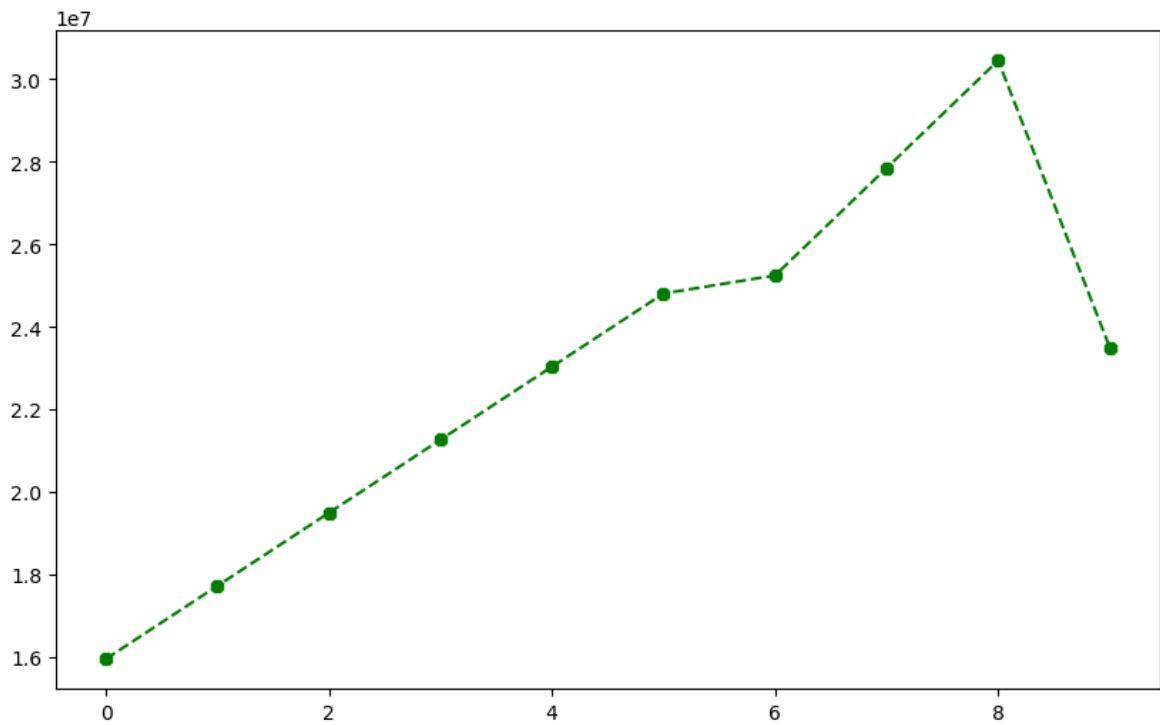
In [268... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'x') ## this plots the sal`
`plt.show() # this changes the colour of the plot, line style of the plot, adds`



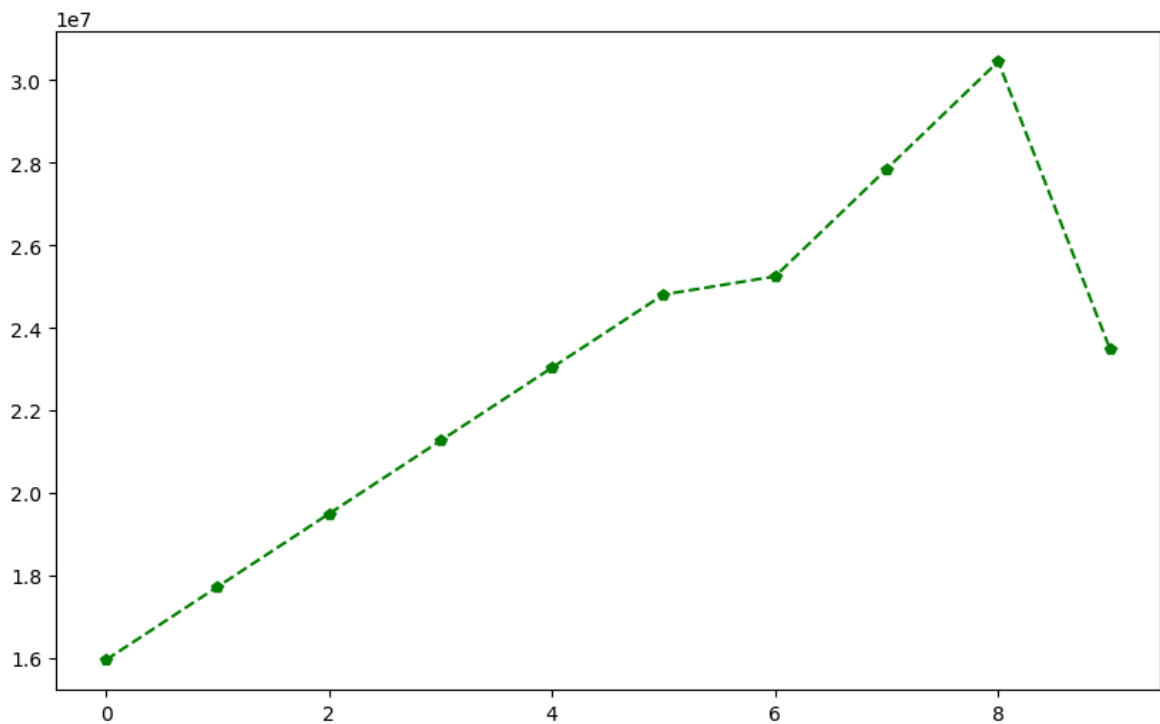
```
In [270... plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'x') ## this plots the sal  
plt.show() # this changes the colour of the plot, line style of the plot, adds
```



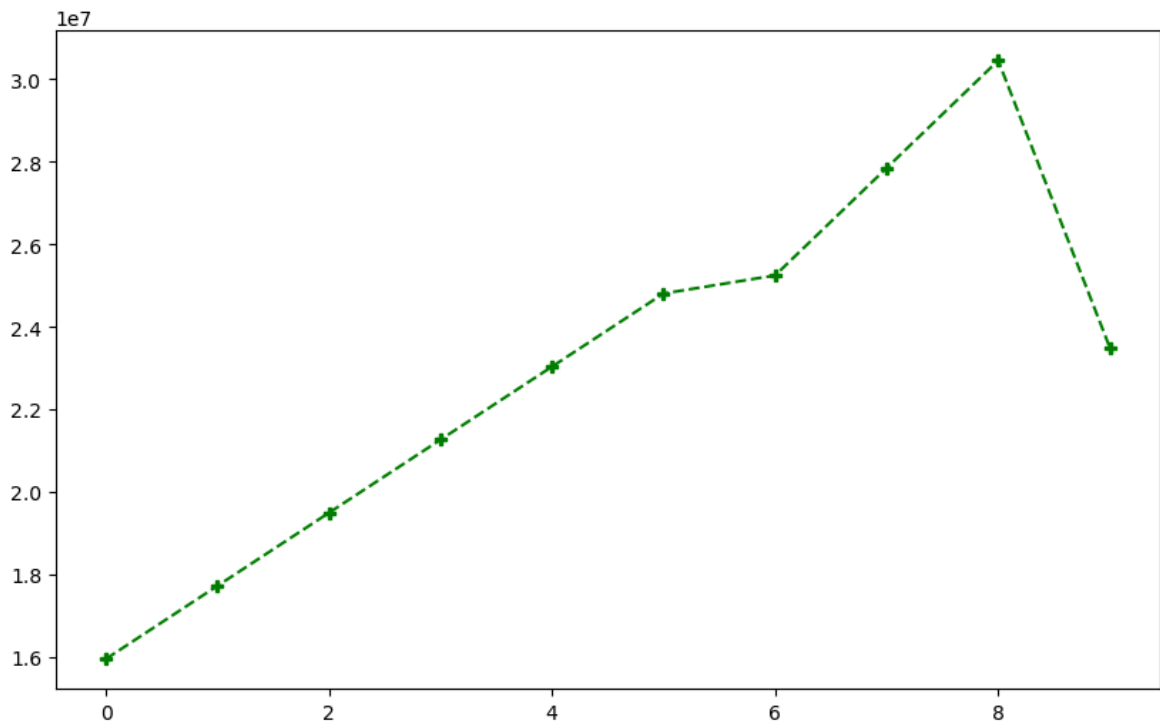
```
In [272... plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'x') ## this plots the sal  
plt.show() # this changes the colour of the plot, line style of the plot, adds
```

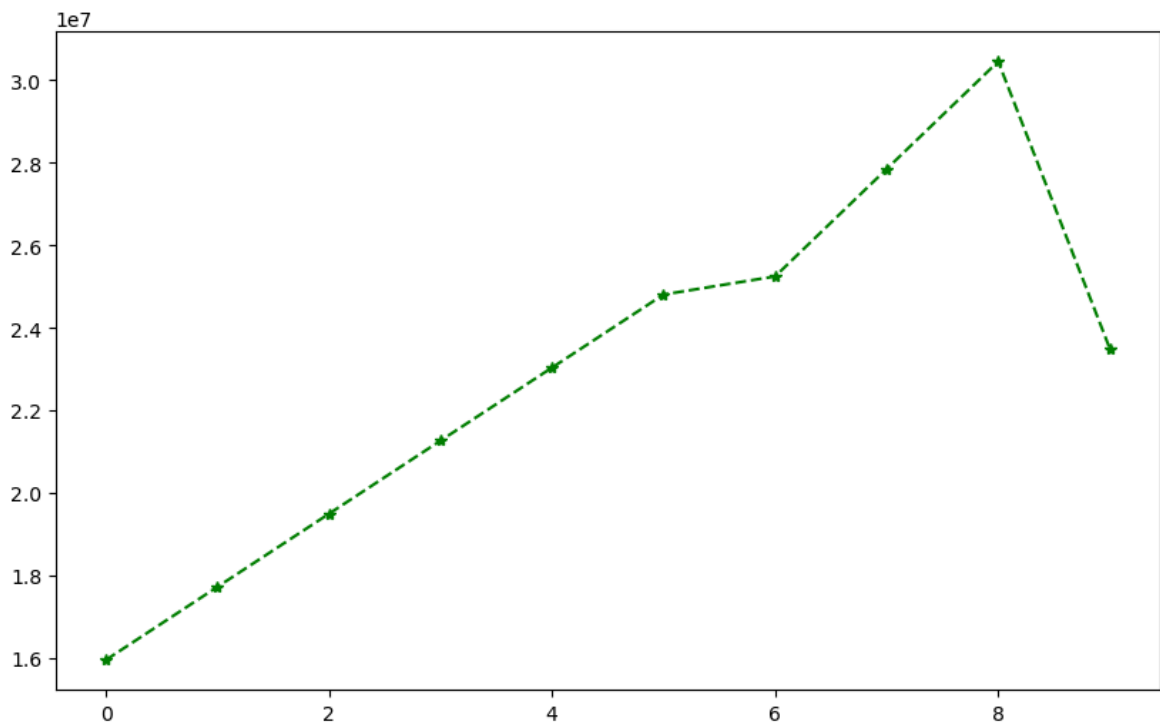
In [274... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'p')` ## this plots the sal
`plt.show()` # this changes the colour of the plot, line style of the plot, adds



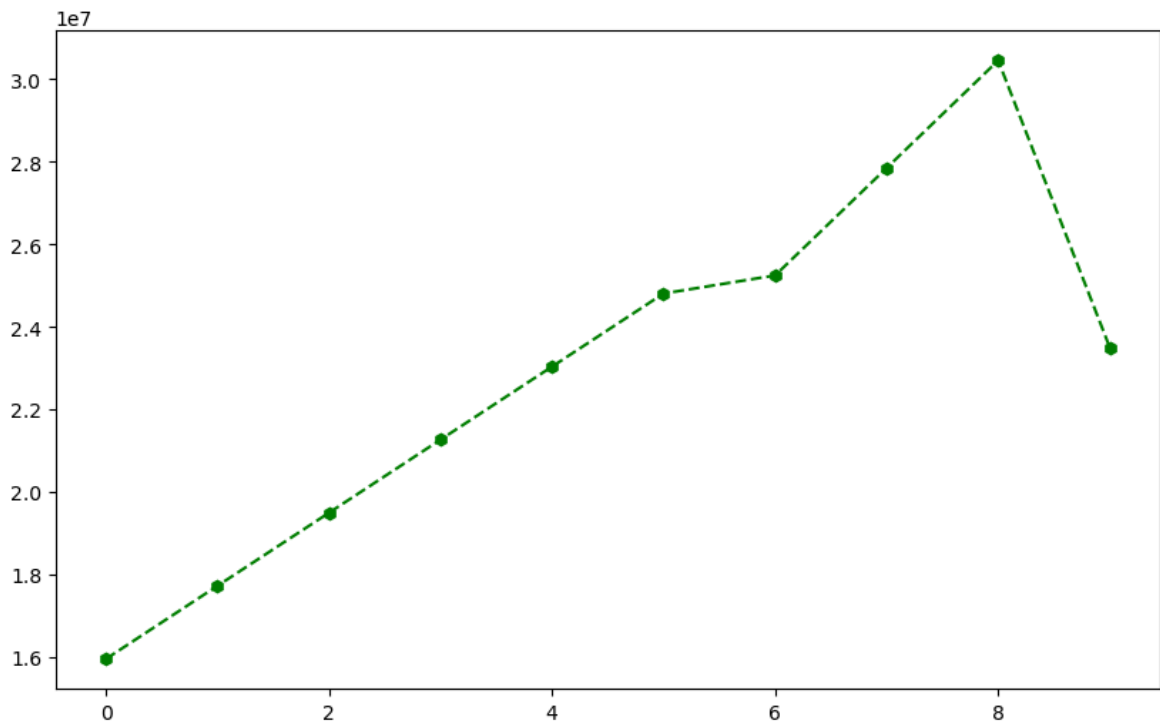
In [276... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'P')` ## this plots the sal
`plt.show()` # this changes the colour of the plot, line style of the plot, adds



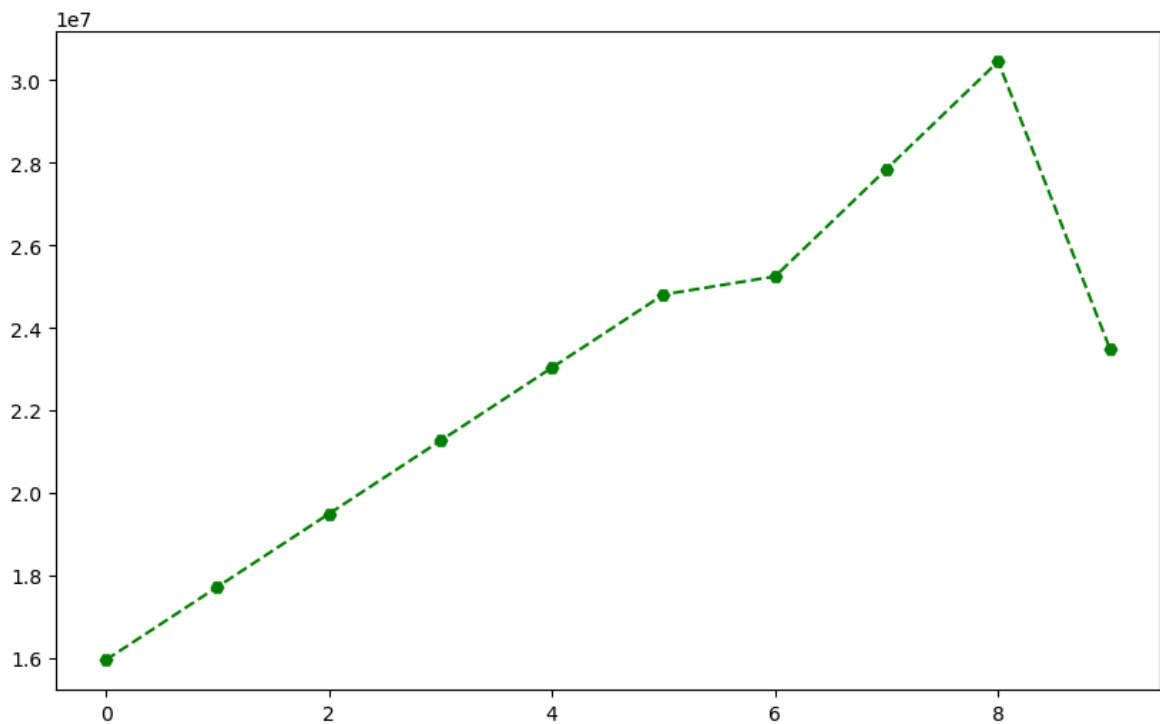
In [278... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = '*') ## this plots the sal`
`plt.show() # this changes the colour of the plot, line style of the plot, adds`



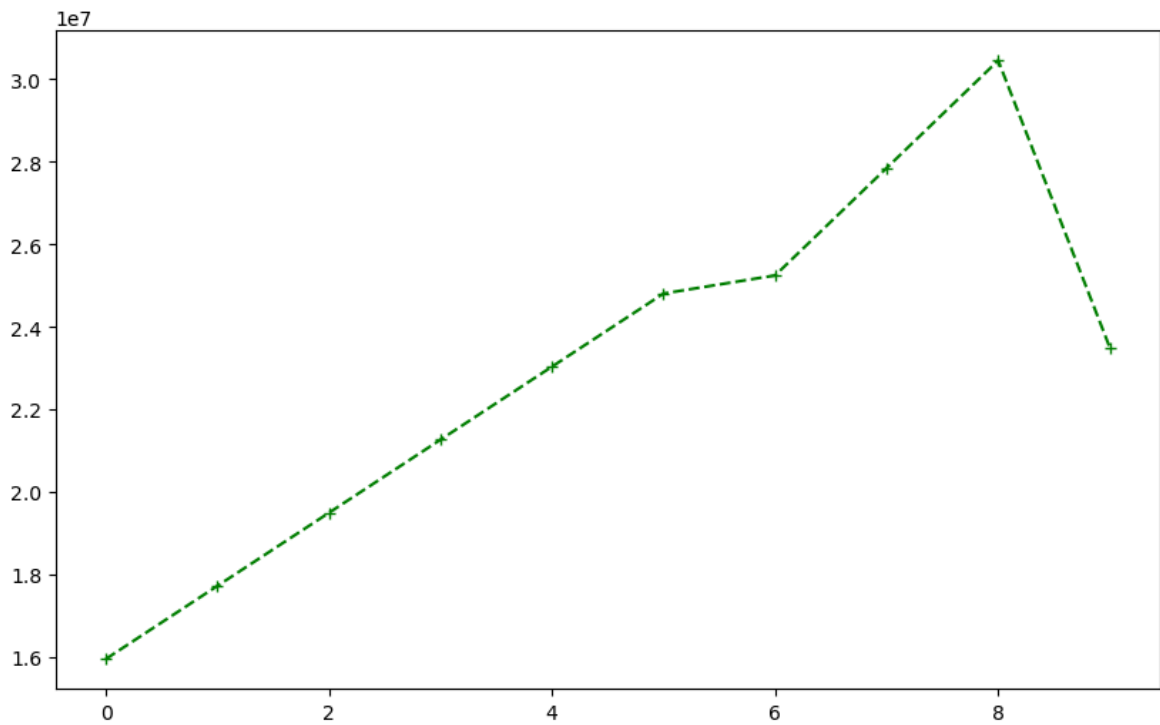
In [280... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'h') ## this plots the sal`
`plt.show() # this changes the colour of the plot, line style of the plot, adds`



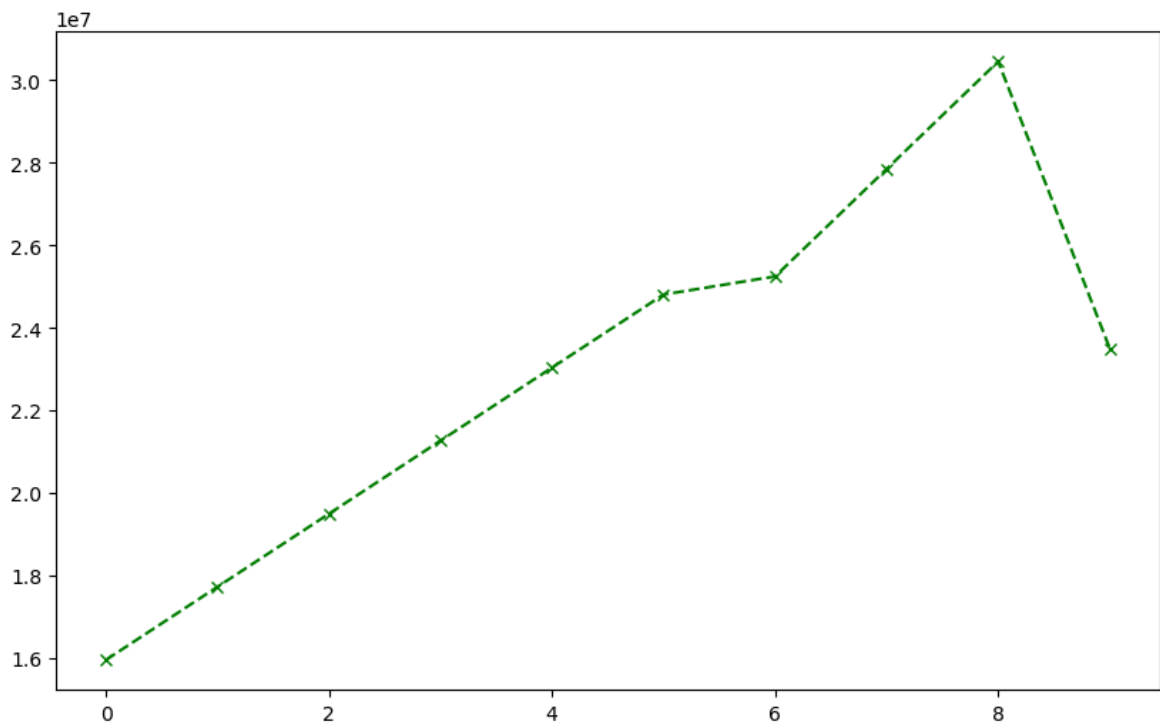
In [282... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'H') ## this plots the sal`
`plt.show() # this changes the colour of the plot, line style of the plot, adds`



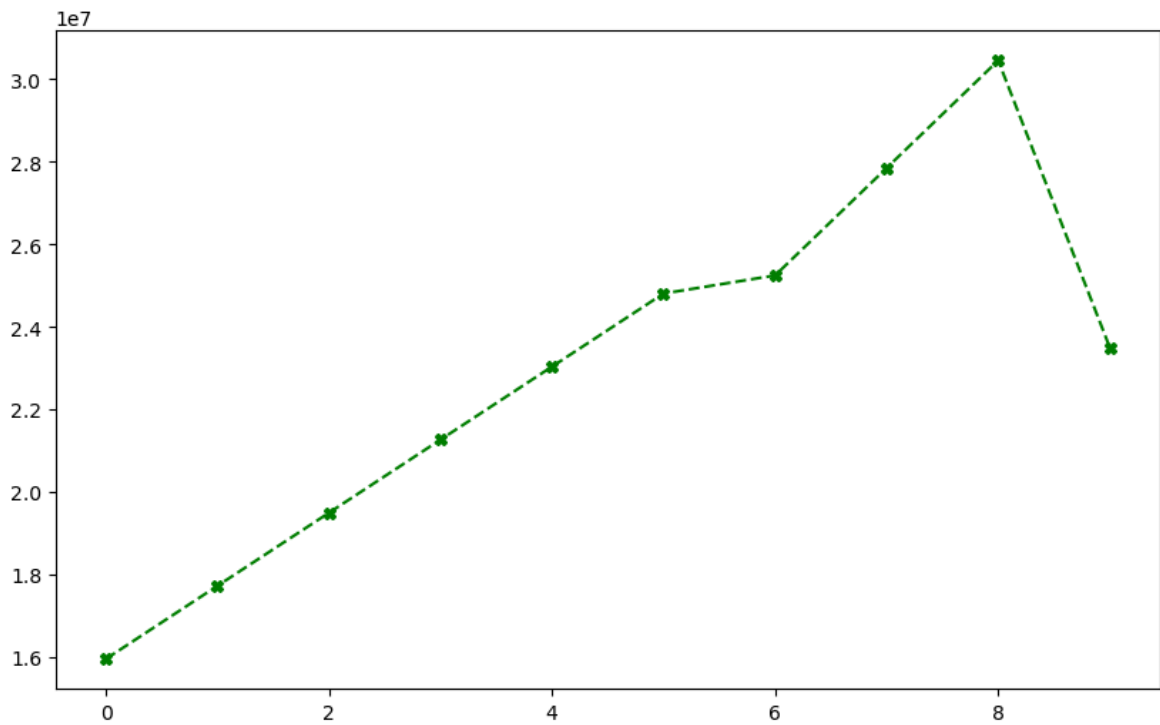
In [284... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = '+') ## this plots the sal`
`plt.show() # this changes the colour of the plot, line style of the plot, adds`



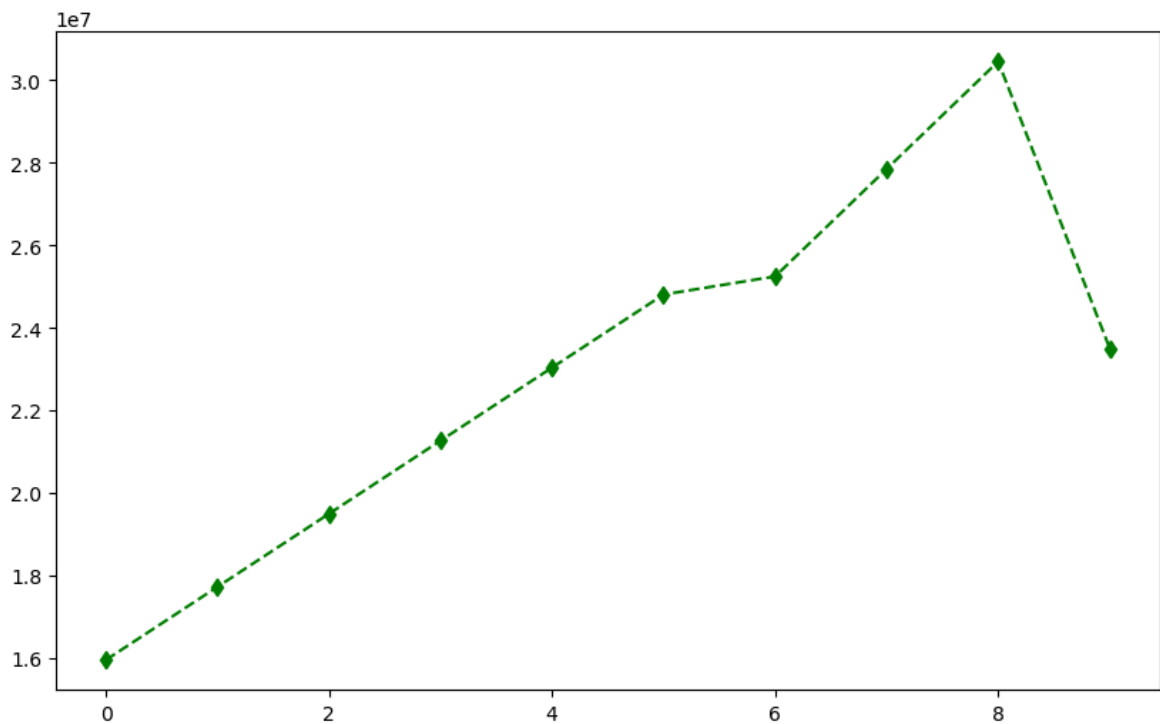
In [286... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'x')` ## this plots the sal
`plt.show()` # this changes the colour of the plot, line style of the plot, adds



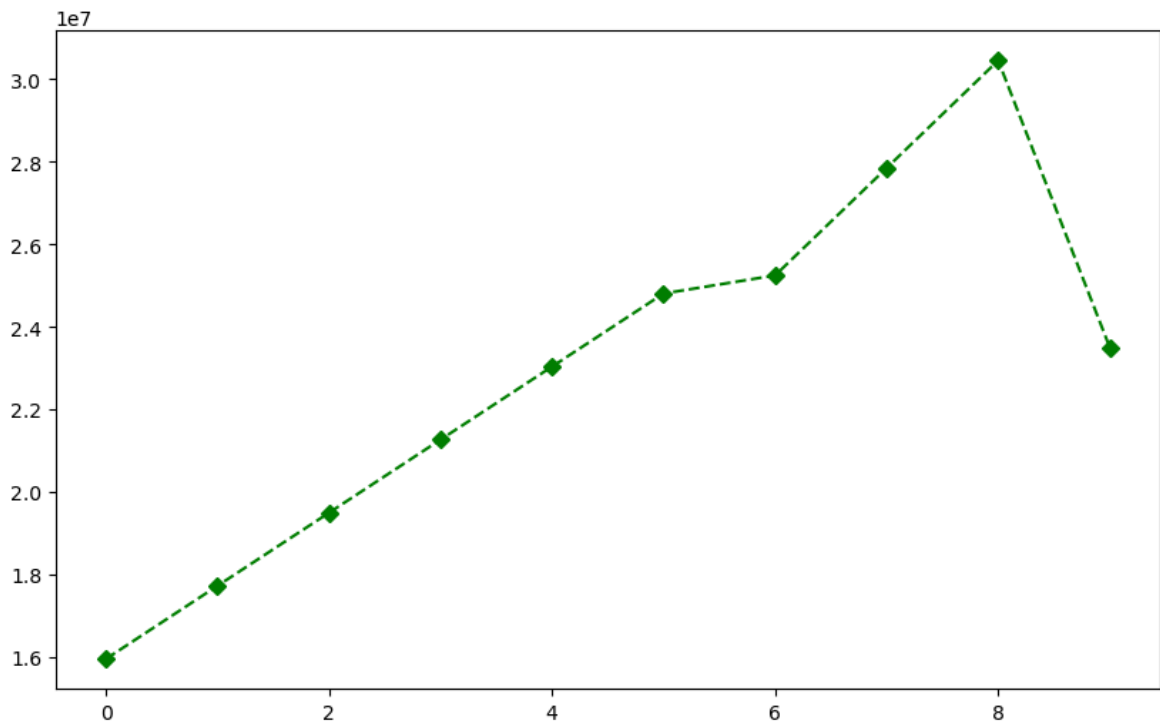
In [288... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'X')` ## this plots the sal
`plt.show()` # this changes the colour of the plot, line style of the plot, adds



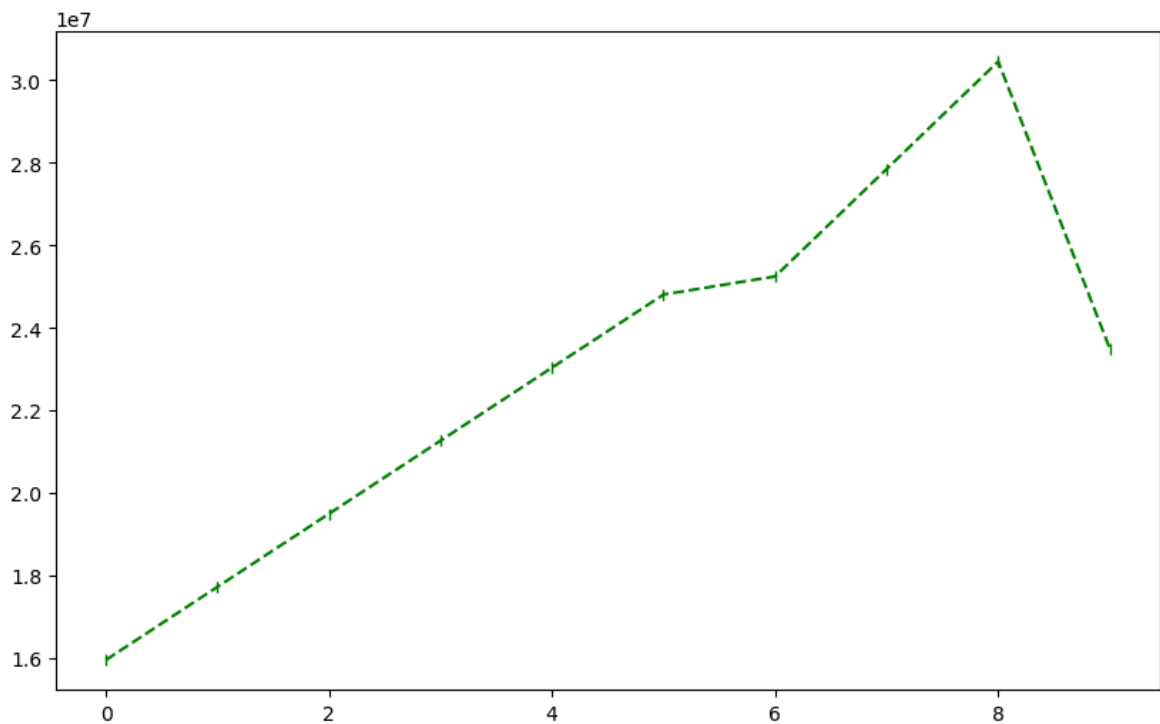
In [290... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'd')` ## this plots the sal
`plt.show()` # this changes the colour of the plot, line style of the plot, adds



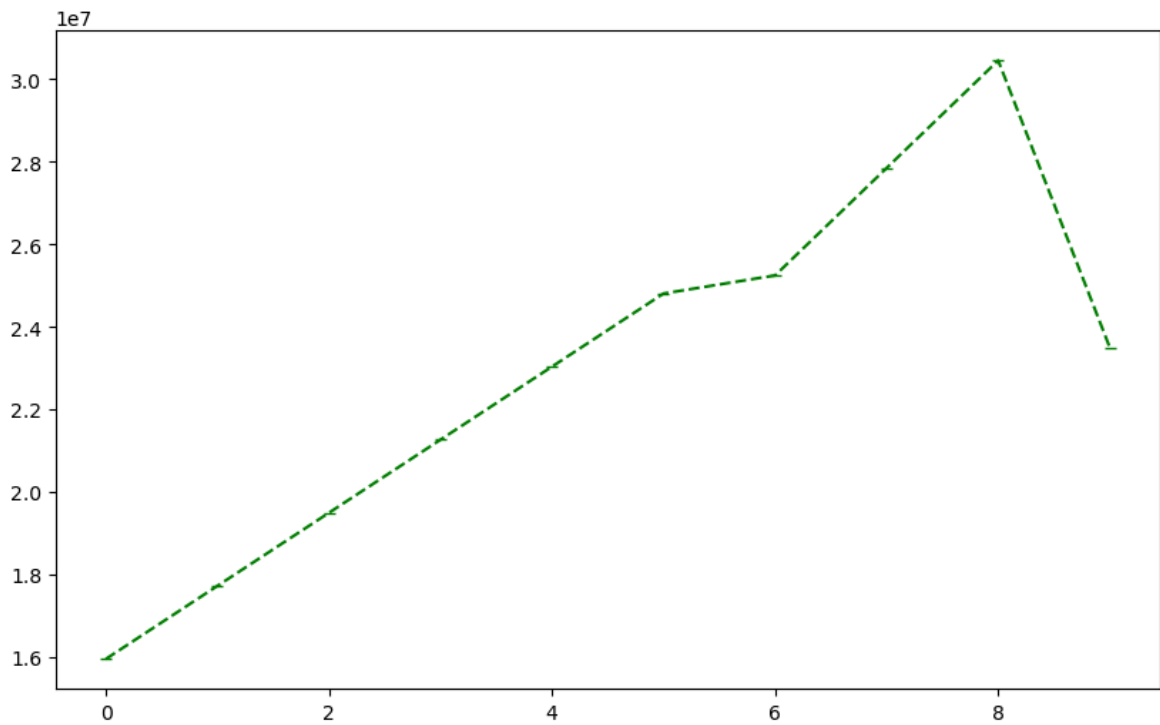
In [292... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 'D')` ## this plots the sal
`plt.show()` # this changes the colour of the plot, line style of the plot, adds



In [294... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = '|')` ## this plots the sal
`plt.show()` # this changes the colour of the plot, line style of the plot, adds

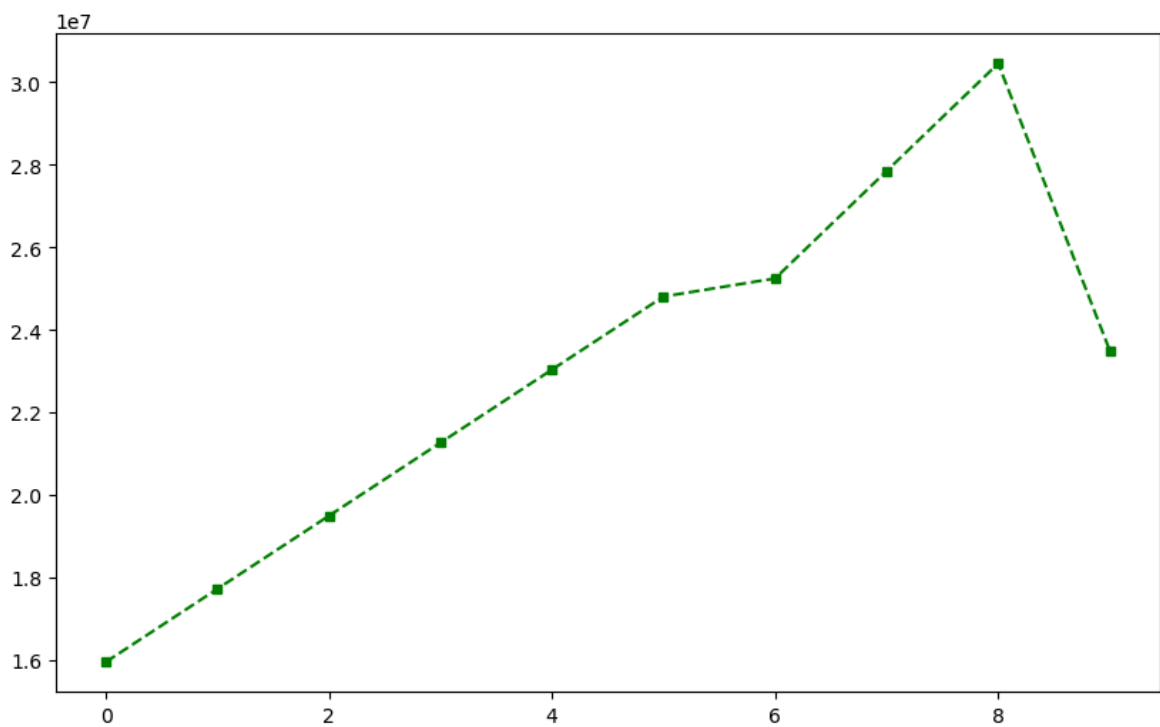


In [296... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = '|')` ## this plots the sal
`plt.show()` # this changes the colour of the plot, line style of the plot, adds



In [298... *# CHANGING THE MARKER STYLE FONT SIZE*

In [300... `plt.plot(Salary[0], c = 'Green', ls = '--', marker = 's', ms = 5)` *## this plots*
`plt.show()` *# this changes the colour of the plot, line style of the plot, adds*



In [302... *Sdict # we defined these in the data*

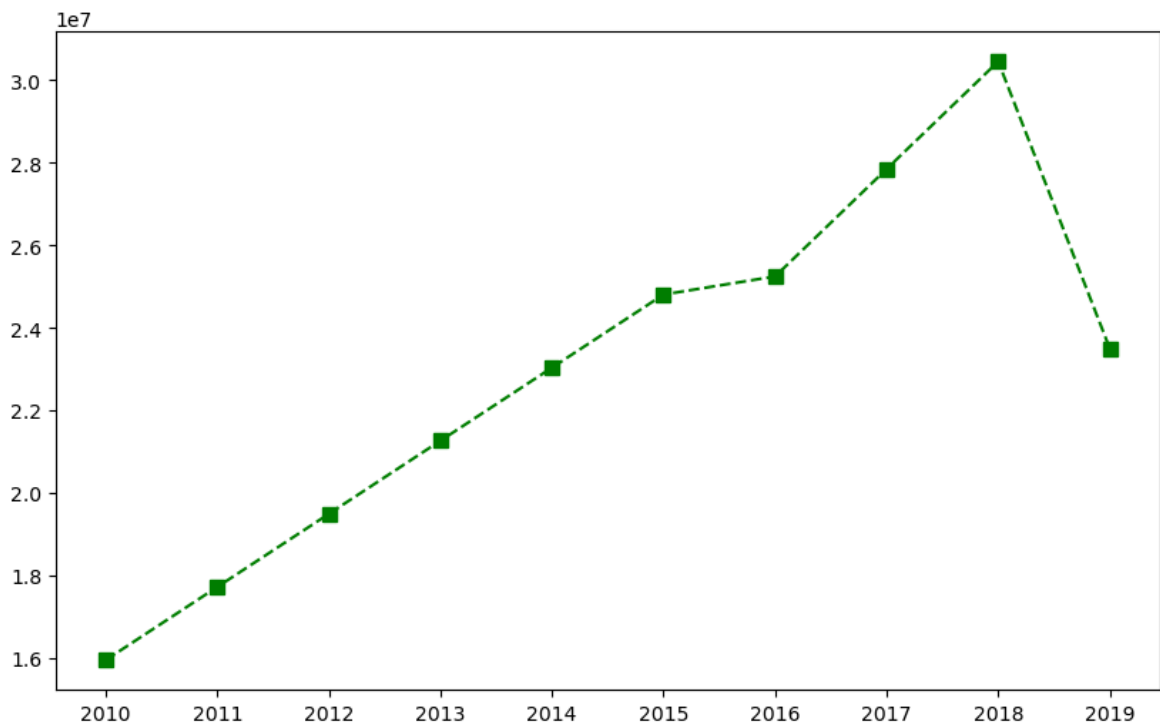
```
Out[302...] {'2010': 0,
             '2011': 1,
             '2012': 2,
             '2013': 3,
             '2014': 4,
             '2015': 5,
             '2016': 6,
             '2017': 7,
             '2018': 8,
             '2019': 9}
```

```
In [118...] Pdicit # we defined these in the data
```

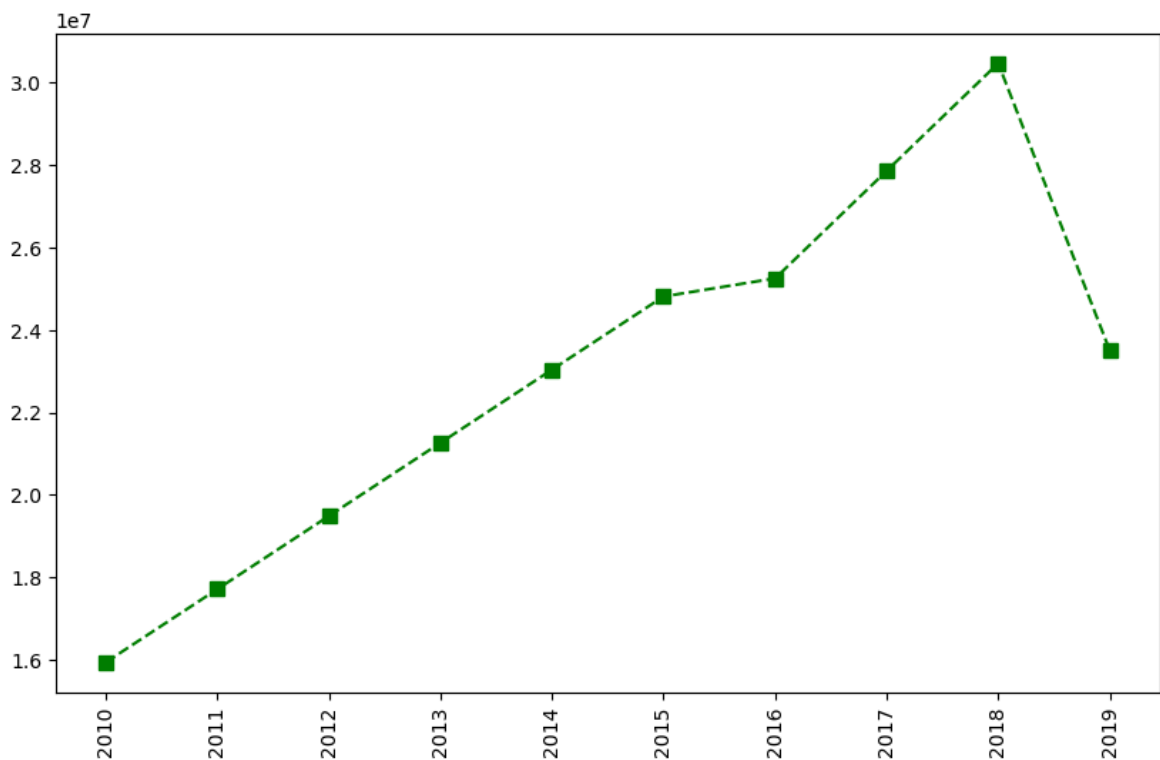
```
Out[118...] {'Sachin': 0,
             'Rahul': 1,
             'Smith': 2,
             'Sami': 3,
             'Pollard': 4,
             'Morris': 5,
             'Samson': 6,
             'Dhoni': 7,
             'Kohli': 8,
             'Sky': 9}
```

```
In [304...] # ADDING ADDITIONAL INFORMATION, TO SIMPLY UNDERSTANDING
```

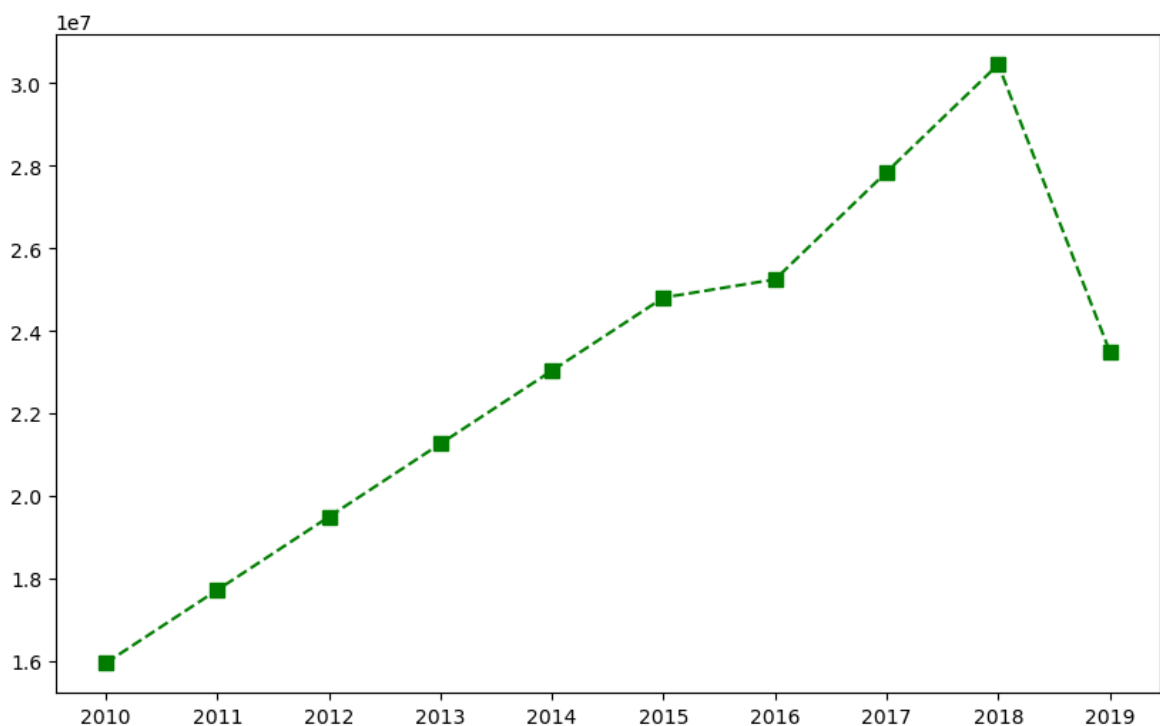
```
In [306...] plt.plot(Salary[0], c = 'Green', ls = '--', marker = 's', ms = 7) ## this plots
plt.xticks(list(range(0,10)), Seasons) # this adds info about the seasons played
plt.show() # this changes the colour of the plot, line style of the plot, adds
```



```
In [308...] plt.plot(Salary[0], c = 'Green', ls = '--', marker = 's', ms = 7, label = Player
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical') # adds info about
plt.show() # this changes the colour of the plot, line style of the plot, adds
```

```
In [310... plt.plot(Salary[0], c = 'Green', ls = '--', marker = 's', ms = 7, label = Player
plt.xticks(list(range(0,10)), Seasons, rotation = 'horizontal') # adds info about
plt.show() # this changes the colour of the plot, line style of the plot, adds
```



```
In [161... Salary[0] # returns the 0th row
```

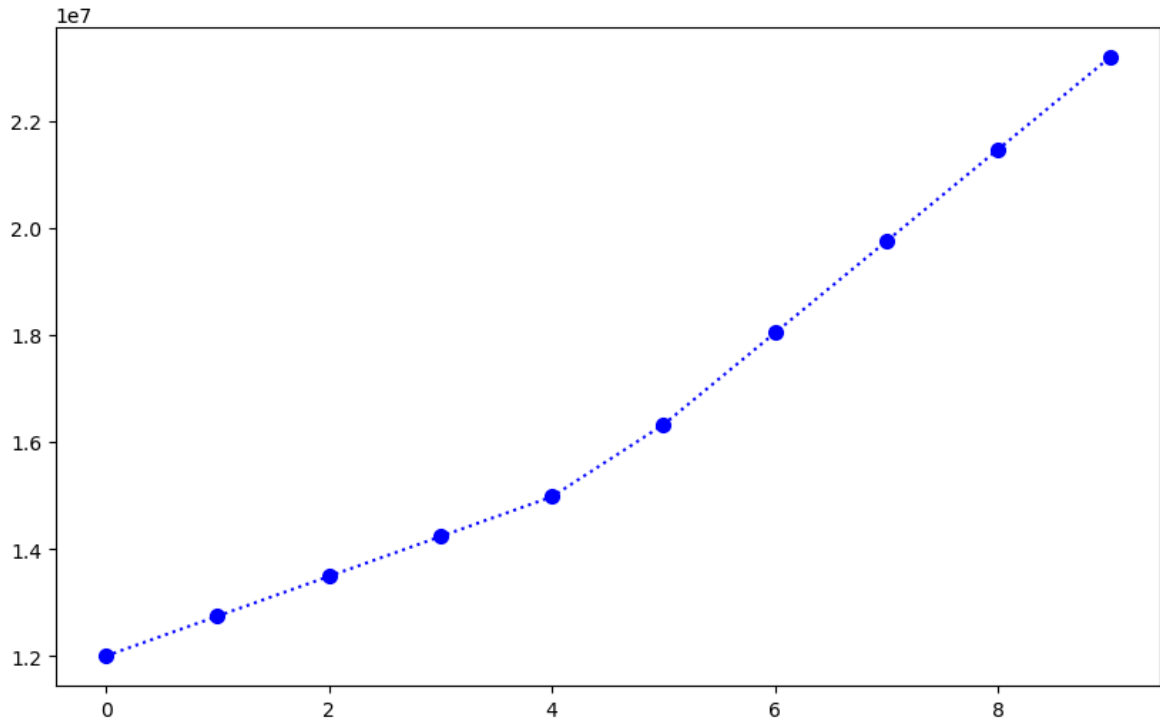
```
Out[161... array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
        25244493, 27849149, 30453805, 23500000])
```

```
In [163... Salary[1] # returns the 1st row
```

```
Out[163... array([12000000, 12744189, 13488377, 14232567, 14976754, 16324500,
        18038573, 19752645, 21466718, 23180790])
```

In [165...

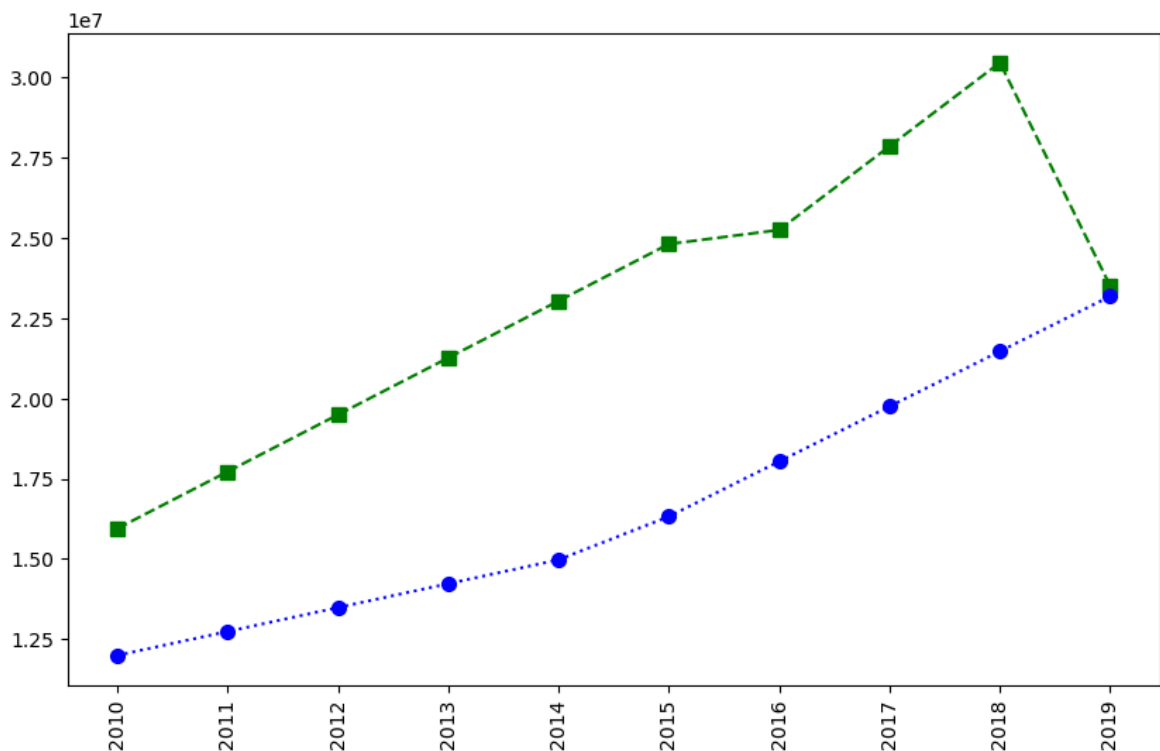
```
plt.plot(Salary[1], c = 'Blue', ls = ':', marker = 'o', ms = 7, label = Players[
plt.show() # this changes the colour of the plot, line style of the plot, adds m
```



MULTIPLE VISUALIZATIONS

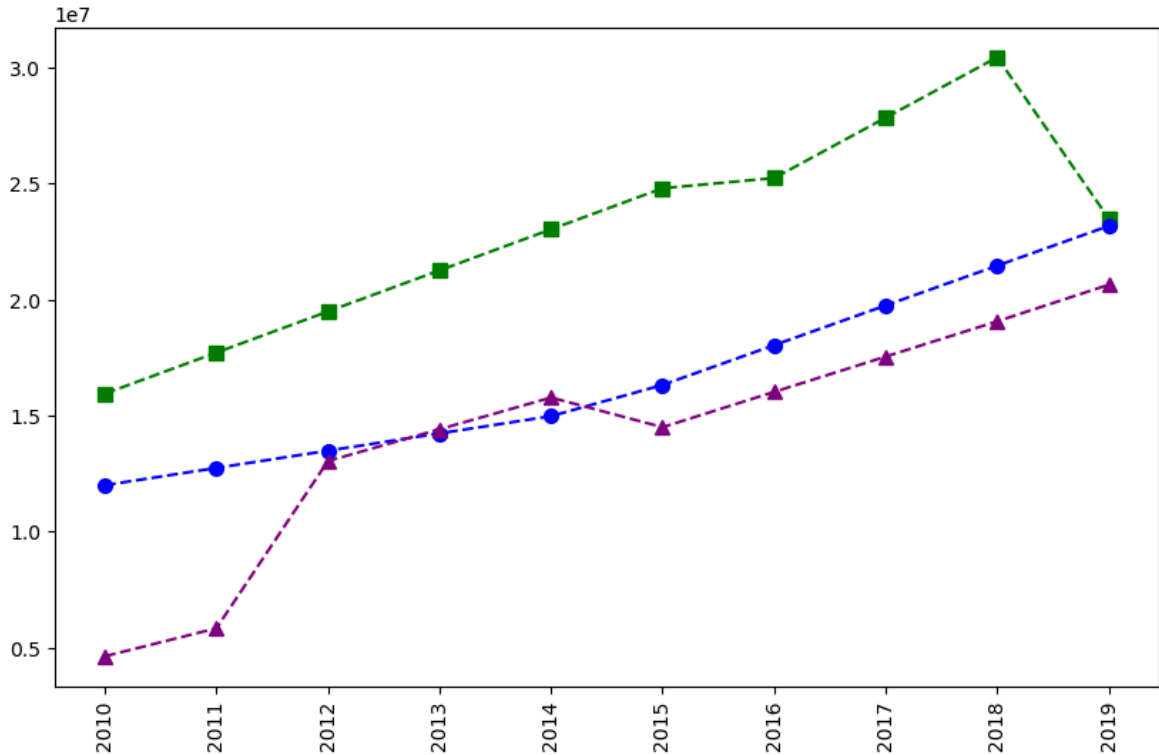
In [168...

```
plt.plot(Salary[0], c = 'Green', ls = '--', marker = 's', ms = 7, label = Player
plt.plot(Salary[1], c = 'Blue', ls = ':', marker = 'o', ms = 7, label = Players[
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical') # adds info about
plt.show() # this changes the colour of the plot, line style of the plot, adds m
```



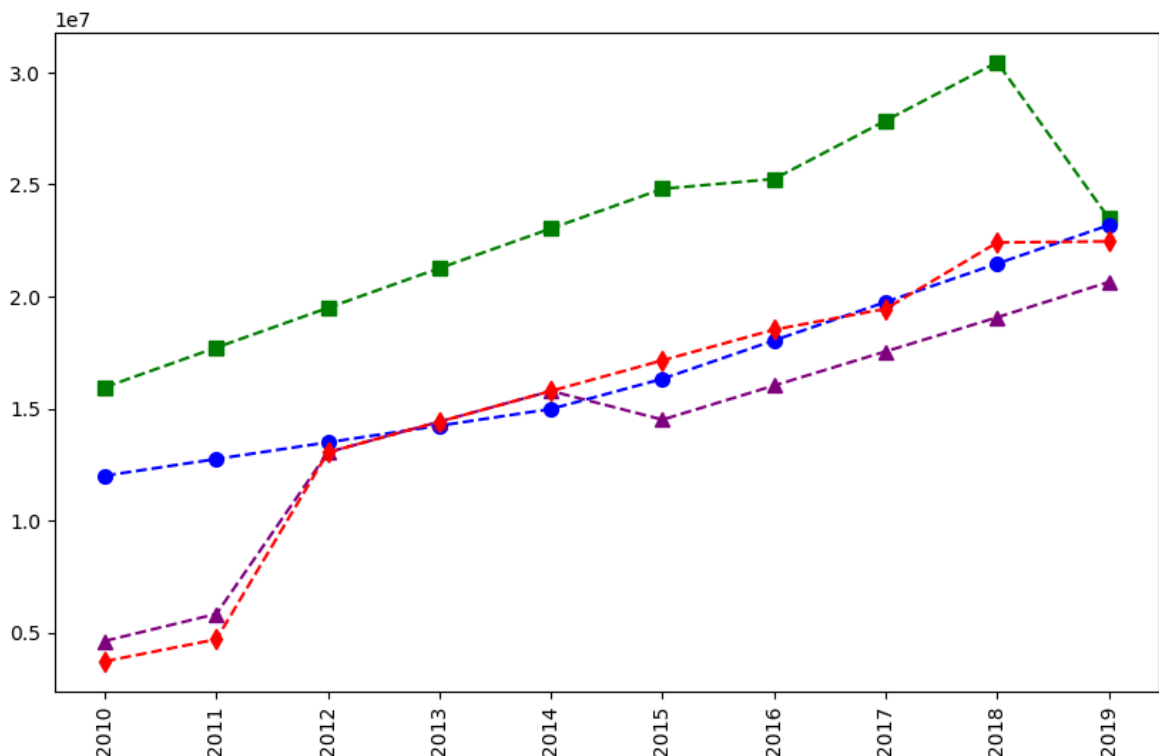
In [172...

```
plt.plot(Salary[0], c = 'Green', ls = '--', marker = 's', ms = 7, label = Player
plt.plot(Salary[1], c = 'Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary[2], c = 'purple', ls = '--', marker = '^', ms = 7, label = Playe
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical') # adds info about
plt.show() # this changes the colour of the plot, line style of the plot, adds m
```



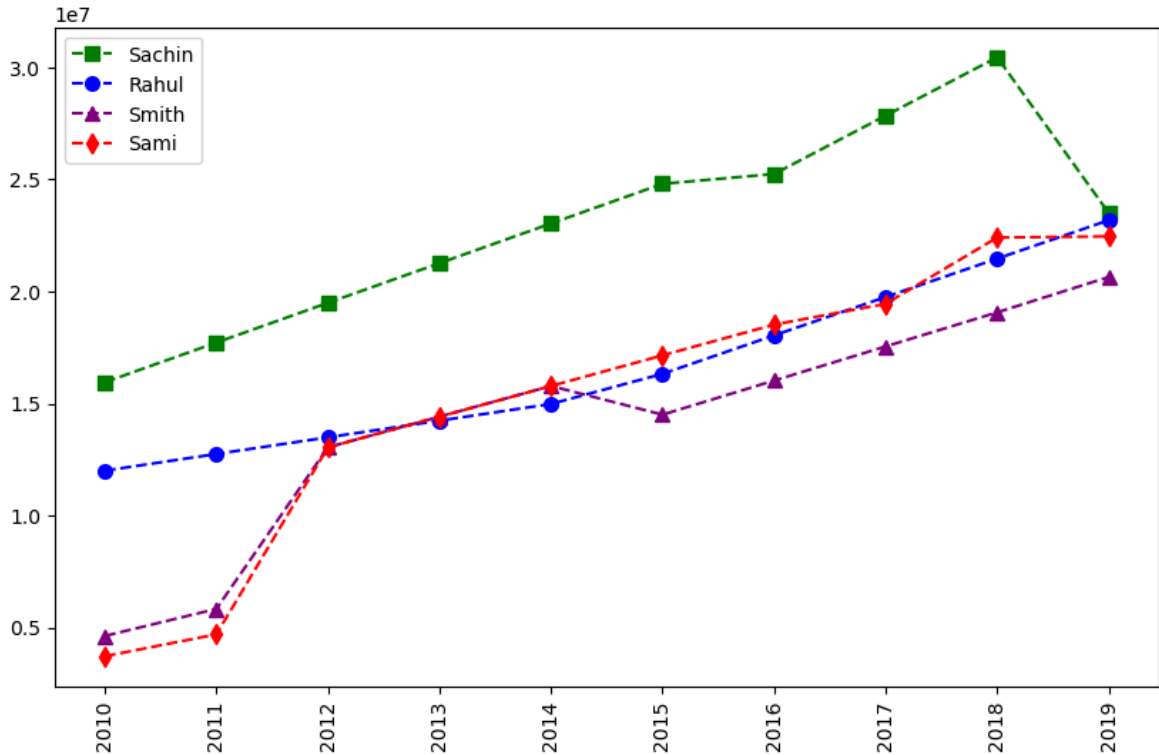
In [174...

```
plt.plot(Salary[0], c = 'Green', ls = '--', marker = 's', ms = 7, label = Player
plt.plot(Salary[1], c = 'Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary[2], c = 'purple', ls = '--', marker = '^', ms = 7, label = Playe
plt.plot(Salary[3], c = 'Red', ls = '--', marker = 'd', ms = 7, label = Players[
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical') # adds info about
plt.show() # this changes the colour of the plot, line style of the plot, adds m
```



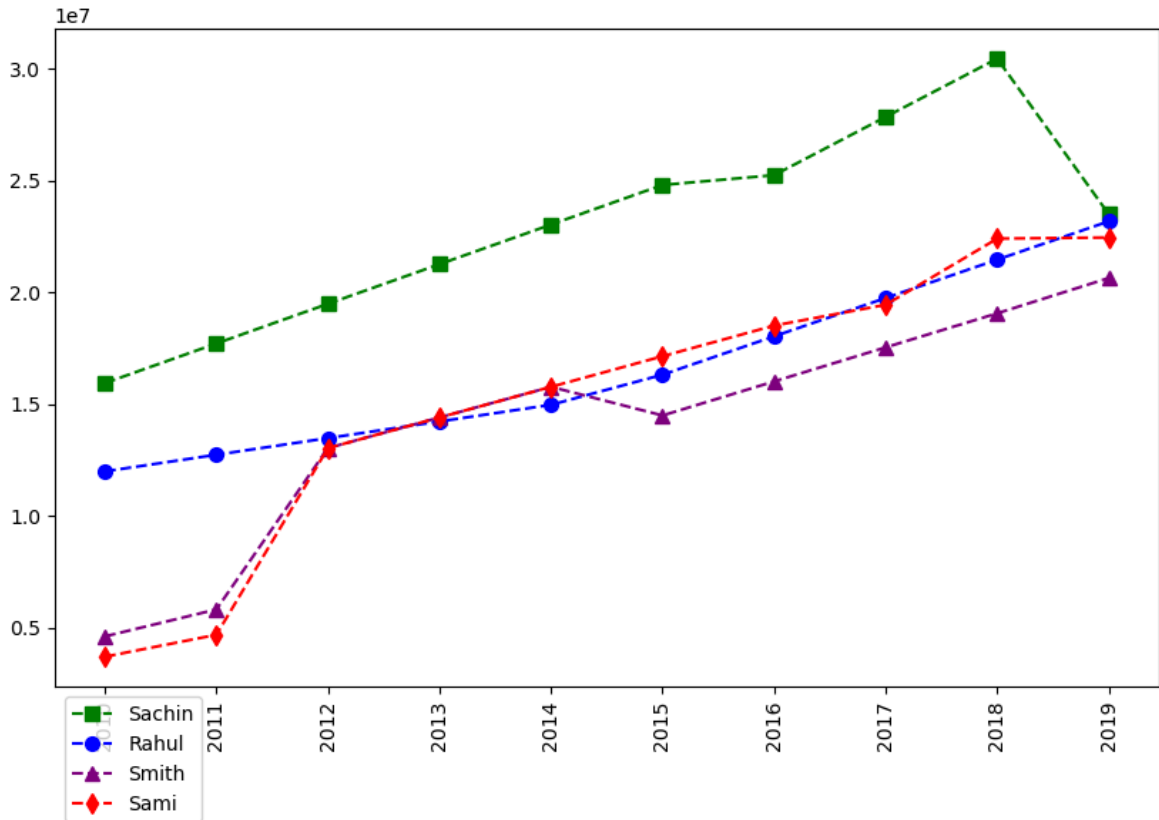
In [178...

```
plt.plot(Salary[0], c = 'Green', ls = '--', marker = 's', ms = 7, label = Player
plt.plot(Salary[1], c = 'Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary[2], c = 'purple', ls = '--', marker = '^', ms = 7, label = Playe
plt.plot(Salary[3], c = 'Red', ls = '--', marker = 'd', ms = 7, label = Players[
plt.legend() # adds the information about the marker
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical') # adds info about
plt.show() # this changes the colour of the plot, line style of the plot, adds m
```



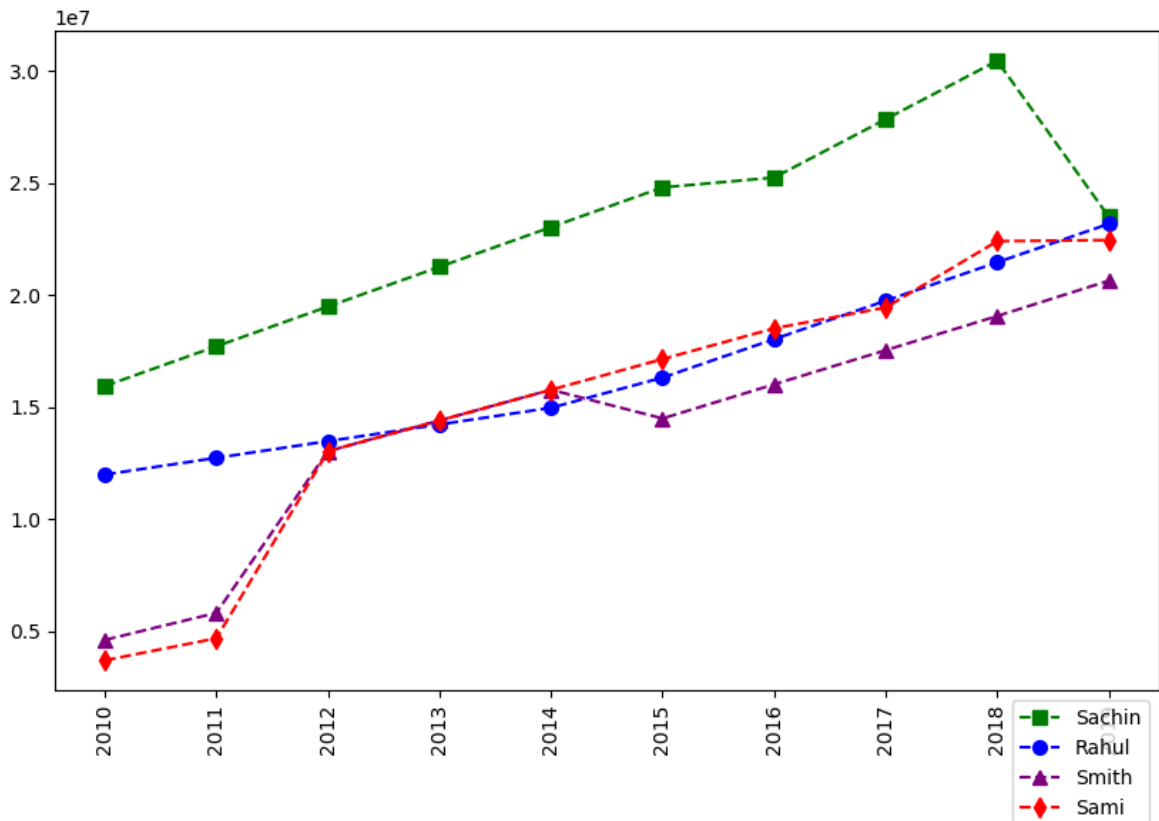
In [180...

```
plt.plot(Salary[0], c = 'Green', ls = '--', marker = 's', ms = 7, label = Player
plt.plot(Salary[1], c = 'Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary[2], c = 'purple', ls = '--', marker = '^', ms = 7, label = Playe
plt.plot(Salary[3], c = 'Red', ls = '--', marker = 'd', ms = 7, label = Players[
plt.legend(loc = 'upper left', bbox_to_anchor = (0,0)) # adds the information ab
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical') # adds info about
plt.show() # this changes the colour of the plot, line style of the plot, adds m
```



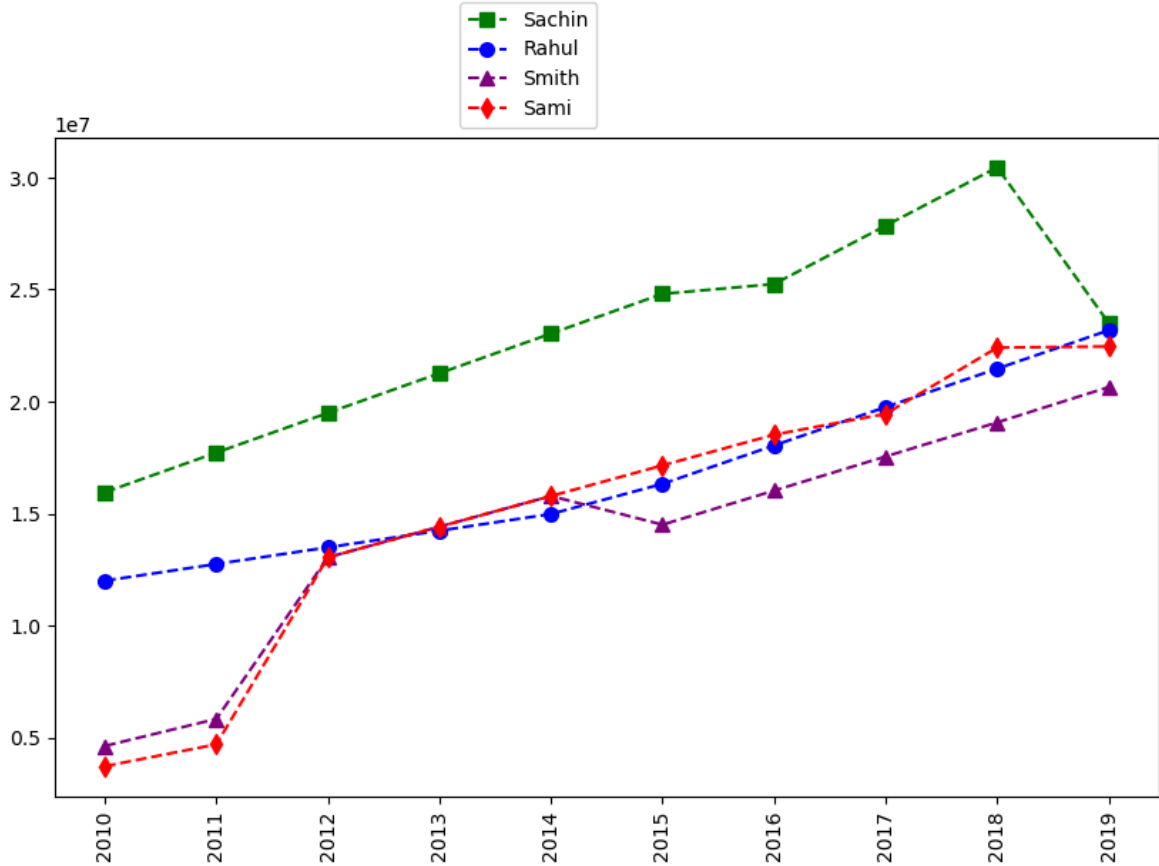
In [182...

```
plt.plot(Salary[0], c = 'Green', ls = '--', marker = 's', ms = 7, label = Player
plt.plot(Salary[1], c = 'Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary[2], c = 'purple', ls = '--', marker = '^', ms = 7, label = Playe
plt.plot(Salary[3], c = 'Red', ls = '--', marker = 'd', ms = 7, label = Players[
plt.legend(loc = 'upper right', bbox_to_anchor = (1,0)) # adds the information a
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical') # adds info about
plt.show() # this changes the colour of the plot, line style of the plot, adds m
```



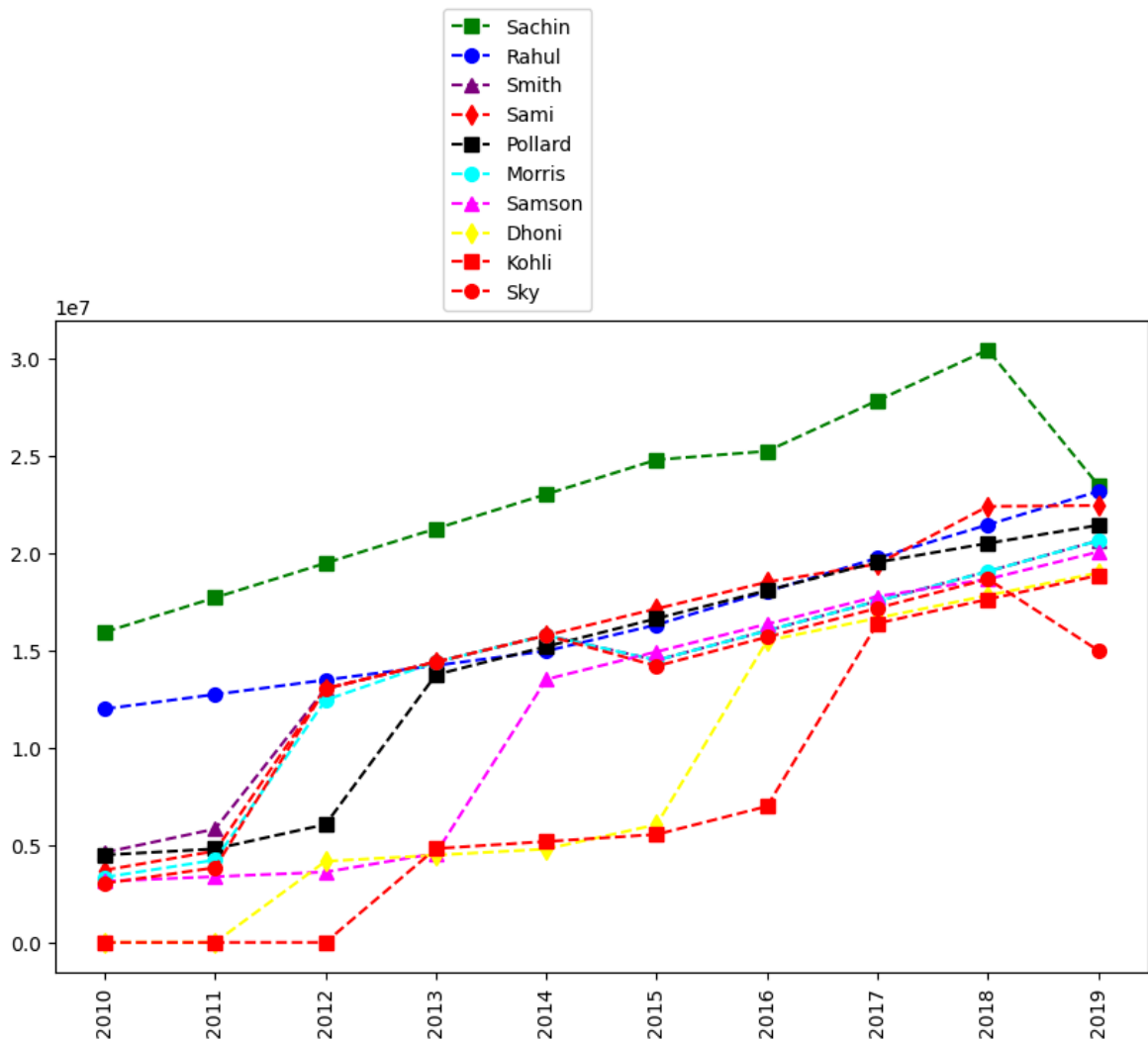
In [184...

```
plt.plot(Salary[0], c = 'Green', ls = '--', marker = 's', ms = 7, label = Player
plt.plot(Salary[1], c = 'Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary[2], c = 'purple', ls = '--', marker = '^', ms = 7, label = Playe
plt.plot(Salary[3], c = 'Red', ls = '--', marker = 'd', ms = 7, label = Players[
plt.legend(loc = 'lower right', bbox_to_anchor = (0.5,1)) # adds the information
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical') # adds info about
plt.show() # this changes the colour of the plot, line style of the plot, adds m
```



In [210...

```
plt.plot(Salary[0], c = 'Green', ls = '--', marker = 's', ms = 7, label = Player
plt.plot(Salary[1], c = 'Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary[2], c = 'purple', ls = '--', marker = '^', ms = 7, label = Playe
plt.plot(Salary[3], c = 'Red', ls = '--', marker = 'd', ms = 7, label = Players[
plt.plot(Salary[4], c='Black', ls = '--', marker = 's', ms = 7, label = Players[
plt.plot(Salary[5], c='Cyan', ls = '--', marker = 'o', ms = 7, label = Players[5
plt.plot(Salary[6], c='magenta', ls = '--', marker = '^', ms = 7, label = Player
plt.plot(Salary[7], c='Yellow', ls = '--', marker = 'd', ms = 7, label = Players
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)) # adds the information
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical') # adds info about
plt.show() # this changes the colour of the plot, line style of the plot, adds m
```



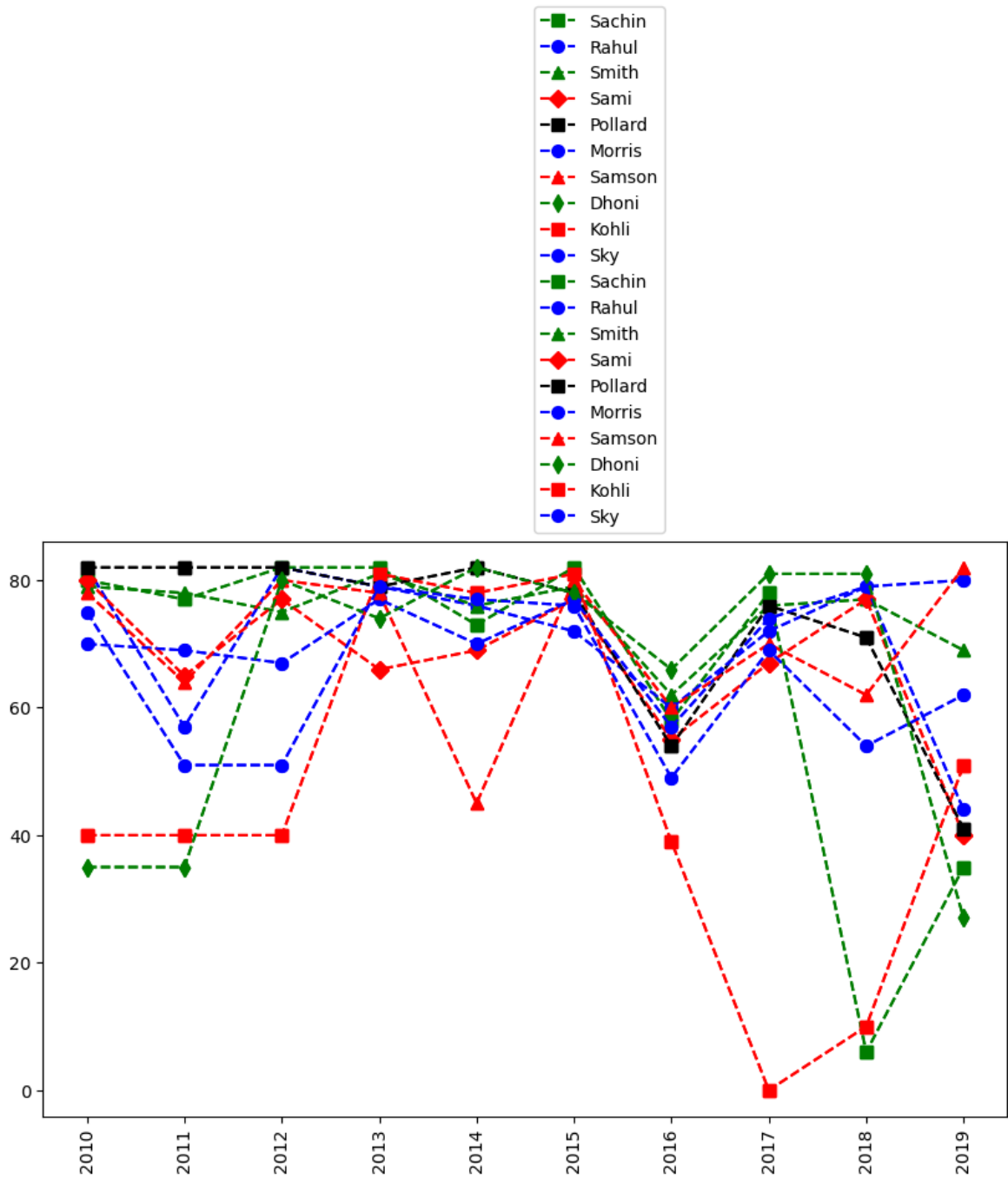
In [208...

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

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

plt.show()
```



In []: