IPL DATA ANALAYSIS USING MATPLOTLIB

```
In [ ]: #Import numpy
        import numpy as np
        #Seasons
        Seasons = ["2015","2016","2017","2018","2019","2020","2021","2022","2023","2024"]
        Sdict = {"2015":0,"2016":1,"2017":2,"2018":3,"2019":4,"2020":5,"2021":6,"2022":7,"2
        #Players
        Players = ["Sachin", "Rahul", "Smith", "Sami", "Pollard", "Morris", "Samson", "Dhoni", "Koh
        Pdict = {"Sachin":0,"Rahul":1,"Smith":2,"Sami":3,"Pollard":4,"Morris":5,"Samson":6,
        #Salaries
        Sachin Salary = [15946875,17718750,19490625,21262500,23034375,24806250,25244493,278
        Rahul_Salary = [12000000,12744189,13488377,14232567,14976754,16324500,18038573,1975
        Smith Salary = [4621800,5828090,13041250,14410581,15779912,14500000,16022500,175450
        Sami_Salary = [3713640,4694041,13041250,14410581,15779912,17149243,18518574,1945000
        Pollard_Salary = [4493160,4806720,6061274,13758000,15202590,16647180,18091770,19536
        Morris Salary = [3348000,4235220,12455000,14410581,15779912,14500000,16022500,17545
        Samson_Salary = [3144240,3380160,3615960,4574189,13520500,14940153,16359805,1777945
        Dhoni_Salary = [0,0,4171200,4484040,4796880,6053663,15506632,16669630,17832627,1899
        Kohli Salary = [0,0,0,4822800,5184480,5546160,6993708,16402500,17632688,18862875]
        Sky_Salary = [3031920,3841443,13041250,14410581,15779912,14200000,15691000,17182000
        #Matrix
        Salary = np.array([Sachin_Salary, Rahul_Salary, Smith_Salary, Sami_Salary, Pollard_
        #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
        #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
In [147...
          Salary
Out[147...
          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, 4822800,
                                                            5184480,
                                                                      5546160,
                                    0,
                    6993708, 16402500, 17632688, 18862875],
                  [ 3031920, 3841443, 13041250, 14410581, 15779912, 14200000,
                   15691000, 17182000, 18673000, 15000000]])
In [149...
          Games
Out[149...
          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 [151...
          Points
Out[151...
          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,
                  [1258, 1104, 1684, 1781, 841, 1268, 1189, 1186, 1185, 1564],
                  [ 903, 903, 1624, 1871, 2472, 2161, 1850, 2280, 2593,
                  [ 597, 597, 597, 1361, 1619, 2026, 852,
                                                                0, 159, 904],
                  [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]])
In [153... | Games[5]
```

```
array([70, 69, 67, 77, 70, 77, 57, 74, 79, 44])
In [155...
          Games[0:5]
Out[155...
          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 [157...
          Games[0,5]
Out[157...
          82
In [159...
          Salary
Out[159...
          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,
                                                                      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 [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 [71]: Salary/Games
```

```
Out[71]: 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, 300455.5555556, 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.
                  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 [73]: np.round(Salary/Games)

```
Out[73]: 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., 52140., 60595.,
                    0.,
                                                     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.]])
```

Warnings ignore regarding project

```
In [75]: import warnings
warnings.filterwarnings("ignore")
```

Assigned the matplotlib library as plt for data visuvalizatins

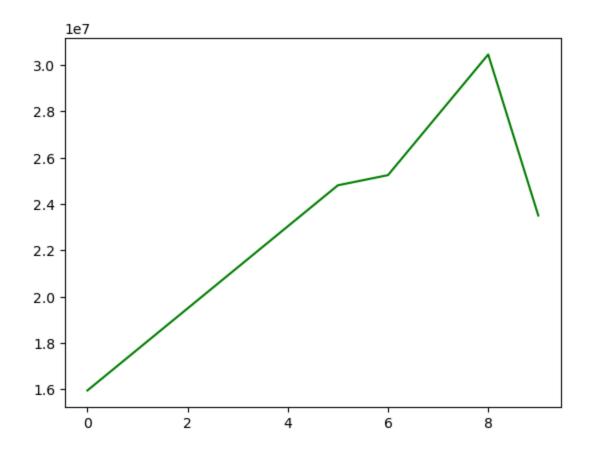
```
In [77]: import matplotlib.pyplot as plt
plt

Out[77]: <module 'matplotlib.pyplot' from 'C:\\Users\\SAIF SHAIK\\anaconda3\\Lib\\site-pack
ages\\matplotlib\\pyplot.py'>
In [79]: Salary
```

```
Out[79]: 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, 6053663,
                 15506632, 16669630, 17832627, 18995624],
                                            0, 4822800, 5184480, 5546160,
                                  0,
                  6993708, 16402500, 17632688, 18862875],
                 [ 3031920, 3841443, 13041250, 14410581, 15779912, 14200000,
                 15691000, 17182000, 18673000, 15000000]])
In [81]: Salary[0]
Out[81]: array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
                 25244493, 27849149, 30453805, 23500000])
```

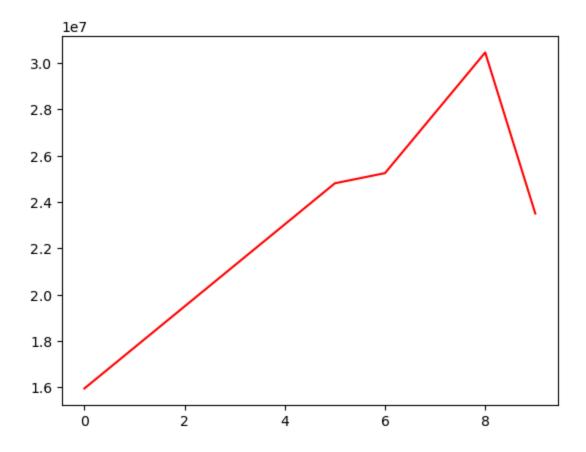
Plot()functions in plt

```
In [83]: plt.plot(Salary[0], c = 'g')
   plt.show()
```



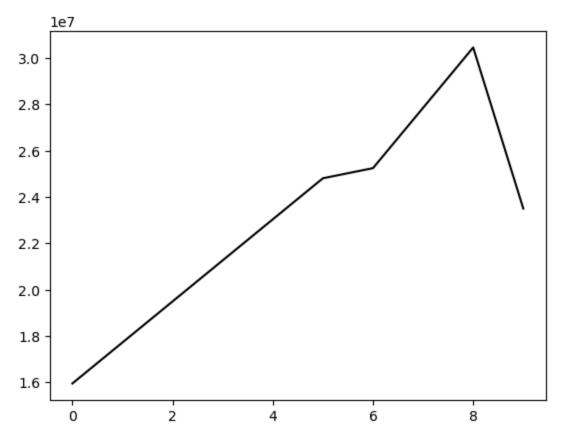
c is color function to plot a graph

```
In [85]: plt.plot(Salary[0],c='r')
   plt.show()
```



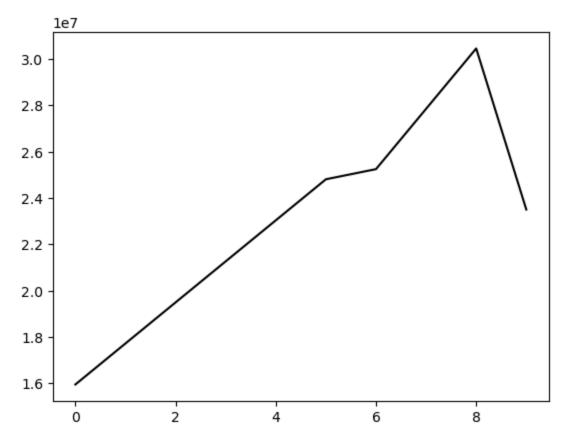
In [87]: plt.plot(Salary[0],color ='black')

Out[87]: [<matplotlib.lines.Line2D at 0x205e5be3440>]



```
In [89]: plt.plot(Salary[0],c='k')
```

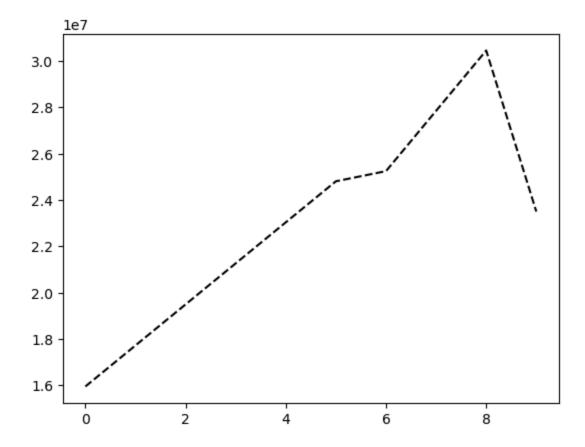
Out[89]: [<matplotlib.lines.Line2D at 0x205e6c9a120>]



Is means line space in graph

```
In [91]: plt.plot(Salary[0],c='k',ls= '--')
```

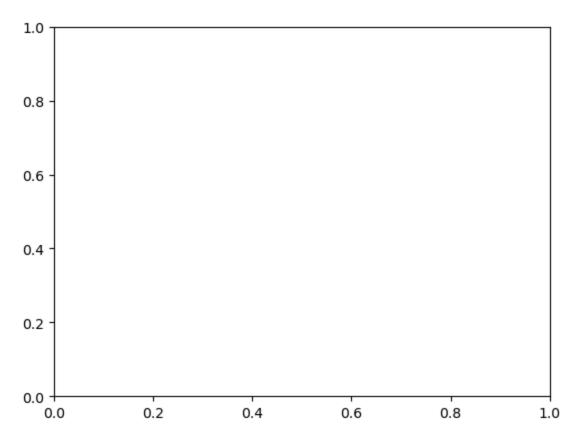
Out[91]: [<matplotlib.lines.Line2D at 0x205e6d1ff80>]



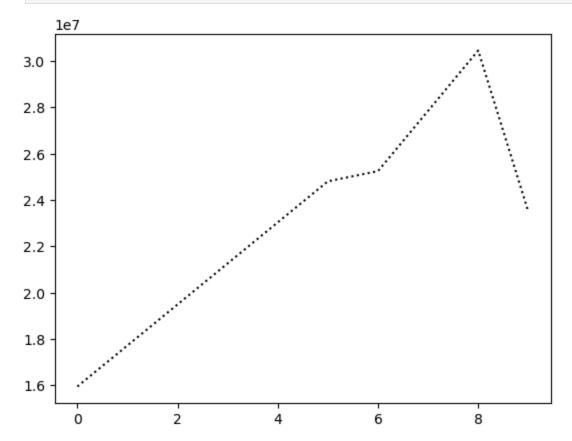
In [93]: plt.plot(Salary[0],c='r',ls = '*')

```
ValueError
                                          Traceback (most recent call last)
Cell In[93], line 1
----> 1 plt.plot(Salary[0],c='r',ls = '*')
File ~\anaconda3\Lib\site-packages\matplotlib\pyplot.py:3794, in plot(scalex, scale
y, data, *args, **kwargs)
  3786 @_copy_docstring_and_deprecators(Axes.plot)
  3787 def plot(
           *args: float | ArrayLike | str,
  3788
  (\ldots)
  3792
            **kwargs,
  3793 ) -> list[Line2D]:
-> 3794
          return gca().plot(
  3795
               *args,
  3796
               scalex=scalex,
  3797
               scaley=scaley,
                **({"data": data} if data is not None else {}),
  3798
  3799
               **kwargs,
  3800
File ~\anaconda3\Lib\site-packages\matplotlib\axes\_axes.py:1779, in Axes.plot(self,
scalex, scaley, data, *args, **kwargs)
  1536 """
  1537 Plot y versus x as lines and/or markers.
  1538
  (…)
  1776 (``'green'``) or hex strings (``'#008000'``).
  1777 """
  1778 kwargs = cbook.normalize_kwargs(kwargs, mlines.Line2D)
-> 1779 lines = [*self._get_lines(self, *args, data=data, **kwargs)]
  1780 for line in lines:
  1781
          self.add line(line)
File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:296, in _process_plot_va
r_args.__call__(self, axes, data, *args, **kwargs)
    294
           this += args[0],
    295
            args = args[1:]
--> 296 yield from self._plot_args(
            axes, this, kwargs, ambiguous_fmt_datakey=ambiguous_fmt_datakey)
File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:534, in _process_plot_va
r_args._plot_args(self, axes, tup, kwargs, return_kwargs, ambiguous_fmt_datakey)
   532
           return list(result)
   533 else:
--> 534
            return [1[0] for 1 in result]
File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:527, in <genexpr>(.0)
   522 else:
    523
            raise ValueError(
               f"label must be scalar or have the same length as the input "
    524
               f"data, but found {len(label)} for {n_datasets} datasets.")
--> 527 result = (make_artist(axes, x[:, j % ncx], y[:, j % ncy], kw,
                              {**kwargs, 'label': label})
   528
                  for j, label in enumerate(labels))
    529
    531 if return_kwargs:
```

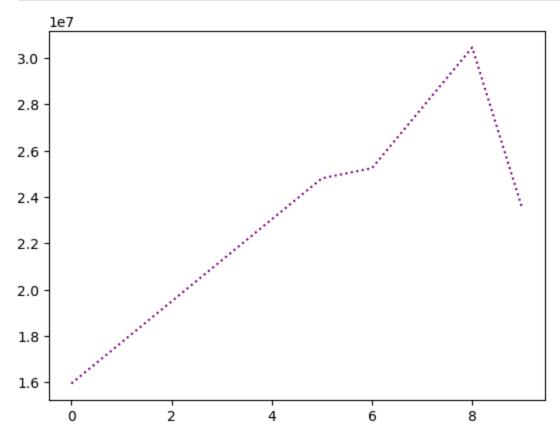
```
532
            return list(result)
File ~\anaconda3\Lib\site-packages\matplotlib\axes\ base.py:335, in process plot va
r_args._makeline(self, axes, x, y, kw, kwargs)
    333 kw = {**kw, **kwargs} # Don't modify the original kw.
    334 self._setdefaults(self._getdefaults(kw), kw)
--> 335 seg = mlines.Line2D(x, y, **kw)
    336 return seg, kw
File ~\anaconda3\Lib\site-packages\matplotlib\lines.py:372, in Line2D.__init__(self,
xdata, ydata, linewidth, linestyle, color, gapcolor, marker, markersize, markeredgew
idth, markeredgecolor, markerfacecolor, markerfacecoloralt, fillstyle, antialiased,
dash_capstyle, solid_capstyle, dash_joinstyle, solid_joinstyle, pickradius, drawstyl
e, markevery, **kwargs)
    369 self. dash pattern = (0, None) # offset, dash (scaled by linewidth)
    371 self.set_linewidth(linewidth)
--> 372 self.set_linestyle(linestyle)
    373 self.set_drawstyle(drawstyle)
    375 self._color = None
File ~\anaconda3\Lib\site-packages\matplotlib\lines.py:1177, in Line2D.set_linestyle
(self, ls)
   1175 if ls in [' ', '', 'none']:
   1176
           ls = 'None'
-> 1177 _api.check_in_list([*self._lineStyles, *ls_mapper_r], ls=ls)
   1178 if ls not in self._lineStyles:
   1179
            ls = ls_mapper_r[ls]
File ~\anaconda3\Lib\site-packages\matplotlib\_api\__init__.py:129, in check_in_list
(values, _print_supported_values, **kwargs)
    127 if _print_supported_values:
            msg += f"; supported values are {', '.join(map(repr, values))}"
--> 129 raise ValueError(msg)
ValueError: '*' is not a valid value for ls; supported values are '-', '--', '-.',
':', 'None', ' ', '', 'solid', 'dashed', 'dashdot', 'dotted'
```



In [95]: plt.plot(Salary[0],c='k',ls=':')
plt.show()

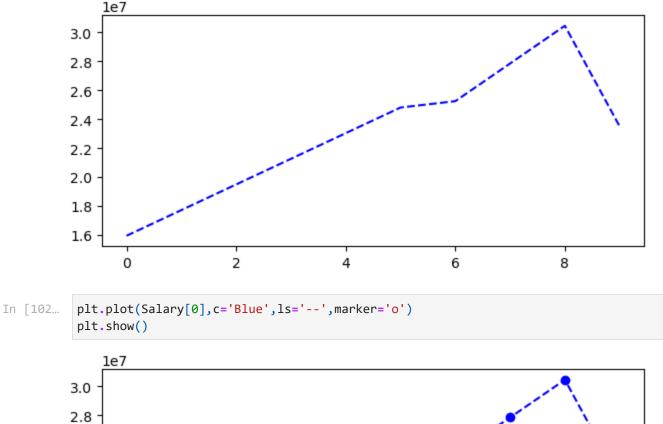


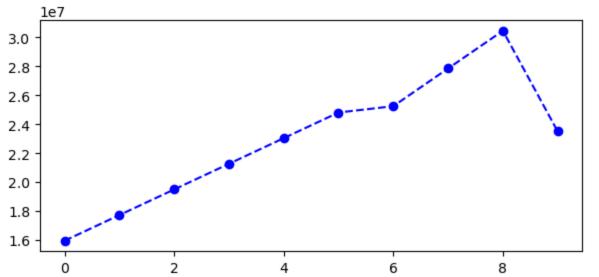




rcParams() function is for the figuresize to plot the width and height

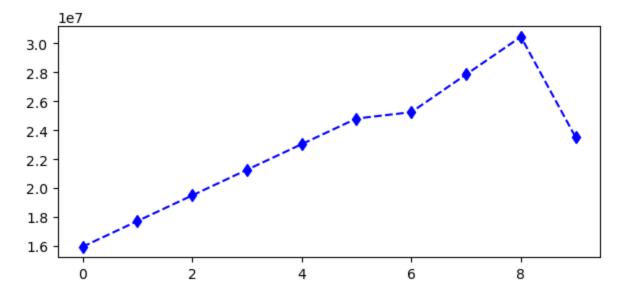
```
In [99]: plt.rcParams['figure.figsize']= 7,3
In [101... plt.plot(Salary[0],c='Blue',ls='--')
plt.show()
```





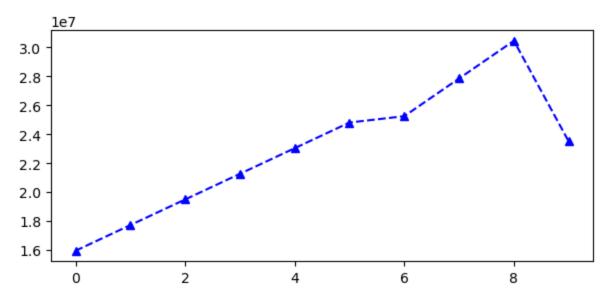
marker function is for the markering the points in the graphs

```
In [104... plt.plot(Salary[0],c='Blue',ls='--',marker='d')
Out[104... [<matplotlib.lines.Line2D at 0x205e6ee5400>]
```



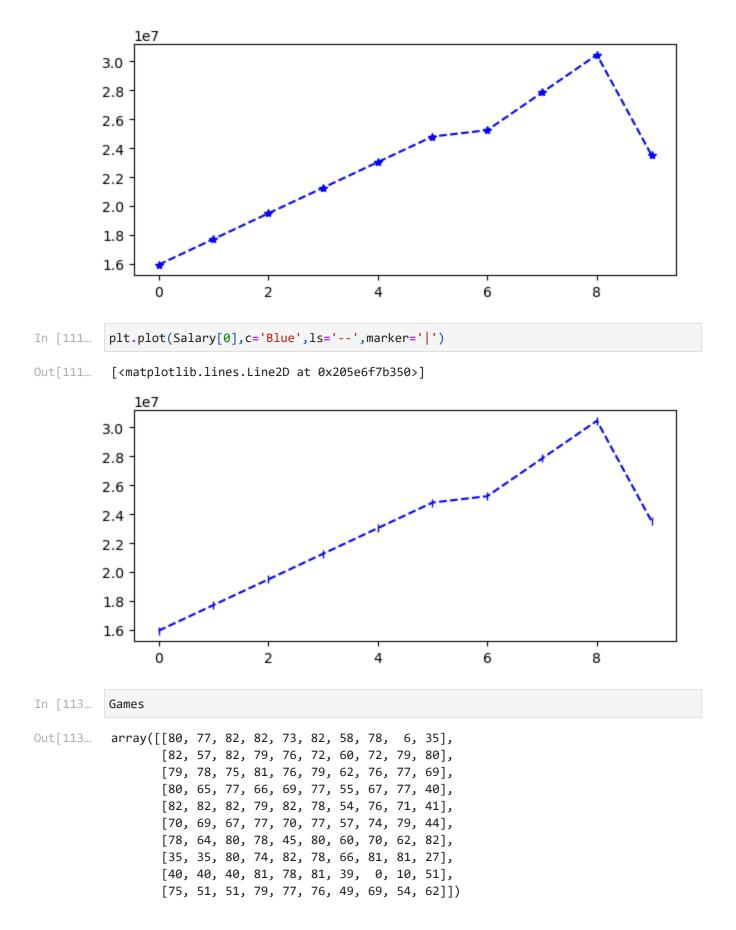
In [107... plt.plot(Salary[0],c='Blue',ls='--',marker='^')

Out[107... [<matplotlib.lines.Line2D at 0x205e5b43b60>]



In [109... plt.plot(Salary[0],c='Blue',ls='--',marker='*')

Out[109... [<matplotlib.lines.Line2D at 0x205e6f4d340>]



ms means marker size

```
In [115...
           plt.plot(Salary[0],c='Green',ls='--',marker='o',ms= 5)
Out[115...
           [<matplotlib.lines.Line2D at 0x205e6fffa40>]
               1e7
          3.0
          2.8
          2.6
          2.4
          2.2
          2.0
          1.8
          1.6
                                  2
                  0
                                                  4
                                                                  6
                                                                                  8
In [117...
          list(range(0,10))
```

Salary dict prints salarys of the players

Out[117...

[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

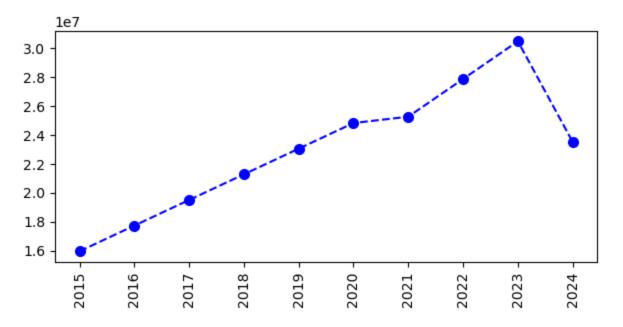
prints players name and values in the dict

```
In [121... Pdict
```

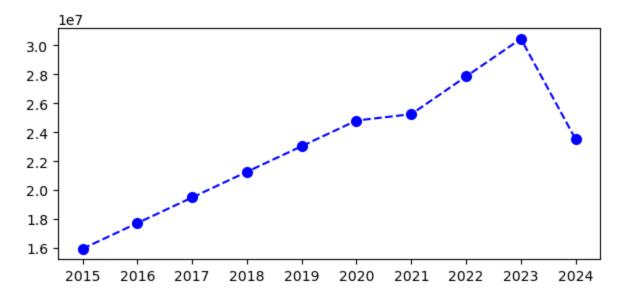
ploting the xaxis and yaxis is like are xticks() and yticks()

```
In [123...
          plt.plot(Salary[0],c='Blue',ls='--',marker='o',ms=7)
          plt.xticks(list(range(0,10)),Seasons)
          plt.show()
              1e7
         3.0
         2.8
         2.6
         2.4
         2.2
         2.0
         1.8
         1.6
               2015
                       2016
                              2017
                                      2018
                                              2019
                                                      2020
                                                             2021
                                                                     2022
                                                                             2023
                                                                                     2024
```

```
In [125... plt.plot(Salary[0],c='Blue',ls='--',marker='o',ms=7)
    plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
    plt.show()
```



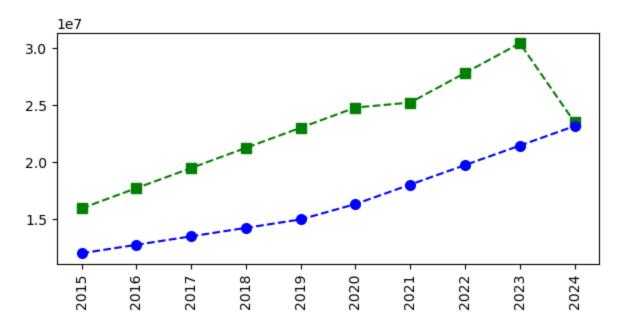
In [127... plt.plot(Salary[0],c='Blue',ls='--',marker='o',ms=7)
 plt.xticks(list(range(0,10)),Seasons,rotation='horizontal')
 plt.show()



```
In [134... Salary[1]
```

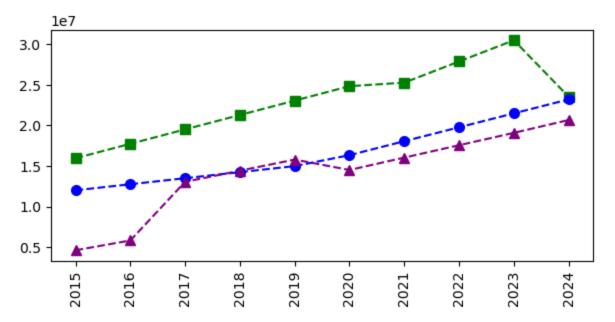
Out[134... array([12000000, 12744189, 13488377, 14232567, 14976754, 16324500, 18038573, 19752645, 21466718, 23180790])

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



```
In [140... 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='purple',ls='--',marker='^',ms=7,label =Players[2])

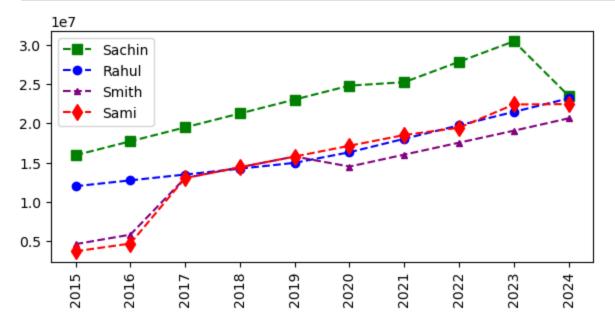
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
    plt.show()
```



legend() function for using the names and identifing the markers assigned to which players inside the plot graphs

```
In [142... plt.plot(Salary[0],c='green',ls='--',marker='s',ms=7,label=Players[0])
    plt.plot(Salary[1],c='Blue',ls='--',marker='o',ms=6,label =Players[1])
    plt.plot(Salary[2],c='purple',ls='--',marker='^',ms=5,label =Players[2])
```

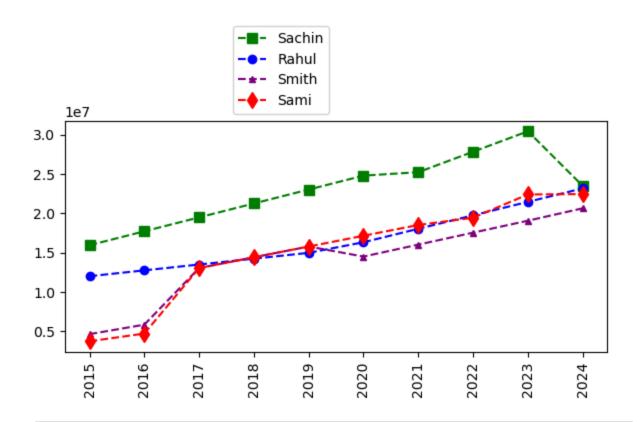
```
plt.plot(Salary[3],c='red',ls='--',marker='d',ms=8,label=Players[3])
plt.legend()
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```



In []: # bbox_to_anchor() function is used for the out of the plot g

```
In [144... plt.plot(Salary[0],c='green',ls='--',marker='s',ms=7,label=Players[0])
  plt.plot(Salary[1],c='Blue',ls='--',marker='o',ms=6,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=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()
```



In []: