In [1]:
```
#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

#Players
Players = ["Sachin","Rahul","Smith","Sami","Pollard","Morris","Samson","Dhoni","
Pdict = {"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, Samsc

#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 [2]:
```
Salary
```

Out[2]:
```
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 [3]:
```
Games
```

Out[3]:
```
array([[80, 77, 82, 82, 73, 82, 58, 78,  6, 35],
       [82, 57, 82, 79, 76, 72, 60, 72, 79, 80],
       [79, 78, 75, 81, 76, 79, 62, 76, 77, 69],
       [80, 65, 77, 66, 69, 77, 55, 67, 77, 40],
       [82, 82, 82, 79, 82, 78, 54, 76, 71, 41],
       [70, 69, 67, 77, 70, 77, 57, 74, 79, 44],
       [78, 64, 80, 78, 45, 80, 60, 70, 62, 82],
       [35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
       [40, 40, 40, 81, 78, 81, 39,  0, 10, 51],
       [75, 51, 51, 79, 77, 76, 49, 69, 54, 62]])
```

In [4]:
```
Points
```

Out[4]:
```
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 [5]:
```
Seasons
```

Out[5]:
```
['2015',
 '2016',
 '2017',
 '2018',
 '2019',
 '2020',
 '2021',
 '2022',
 '2023',
 '2024']
```

In [6]:
```
Games[1]
```

Out[6]:
```
array([82, 57, 82, 79, 76, 72, 60, 72, 79, 80])
```

In [7]:
```
Games[0:6]
```

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]])
```

In [8]:
```
Salary
```

Out[8]:
```
array([[15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
        25244493, 27849149, 30453805, 23500000],
       [12000000, 12744189, 13488377, 14232567, 14976754, 16324500,
        18038573, 19752645, 21466718, 23180790],
       [ 4621800,  5828090, 13041250, 14410581, 15779912, 14500000,
        16022500, 17545000, 19067500, 20644400],
       [ 3713640,  4694041, 13041250, 14410581, 15779912, 17149243,
        18518574, 19450000, 22407474, 22458000],
       [ 4493160,  4806720,  6061274, 13758000, 15202590, 16647180,
        18091770, 19536360, 20513178, 21436271],
       [ 3348000,  4235220, 12455000, 14410581, 15779912, 14500000,
        16022500, 17545000, 19067500, 20644400],
       [ 3144240,  3380160,  3615960,  4574189, 13520500, 14940153,
        16359805, 17779458, 18668431, 20068563],
       [       0,        0,  4171200,  4484040,  4796880,  6053663,
        15506632, 16669630, 17832627, 18995624],
       [       0,        0,        0,  4822800,  5184480,  5546160,
         6993708, 16402500, 17632688, 18862875],
       [ 3031920,  3841443, 13041250, 14410581, 15779912, 14200000,
        15691000, 17182000, 18673000, 15000000]])
```

In [9]:
```
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]:
```
Salary/Games
```

```
C:\Users\hp\AppData\Local\Temp\ipykernel_20008\3709746658.py:1: RuntimeWarning: d
ivide by zero encountered in divide
  Salary/Games
```

Out[10]:
```
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 [11]:
```
np.round(Salary//Games)
```

```
C:\Users\hp\AppData\Local\Temp\ipykernel_20008\3663165759.py:1: RuntimeWarning: d
ivide by zero encountered in floor_divide
  np.round(Salary//Games)
```

Out[11]:
```
array([[ 199335,  230113,  237690,  259298,  315539,  302515,  435249,
         357040, 5075634,  671428],
       [ 146341,  223582,  164492,  180159,  197062,  226729,  300642,
         274342,  271730,  289759],
       [  58503,   74719,  173883,  177908,  207630,  183544,  258427,
         230855,  247629,  299194],
       [  46420,   72216,  169366,  218342,  228694,  222717,  336701,
         290298,  291006,  561450],
       [  54794,   58618,   73917,  174151,  185397,  213425,  335032,
         257057,  288918,  522835],
       [  47828,   61380,  185895,  187150,  225427,  188311,  281096,
         237094,  241360,  469190],
       [  40310,   52815,   45199,   58643,  300455,  186751,  272663,
         253992,  301103,  244738],
       [      0,       0,   52140,   60595,   58498,   77611,  234948,
         205797,  220155,  703541],
       [      0,       0,       0,   59540,   66467,   68471,  179325,
               0, 1763268,  369860],
       [  40425,   75322,  255710,  182412,  204933,  186842,  320224,
         249014,  345796,  241935]])
```

In [12]:
```
import warnings
warnings.filterwarnings('ignore')

#we are using above code to ignore unknown error cause by as updattion on monthl
```

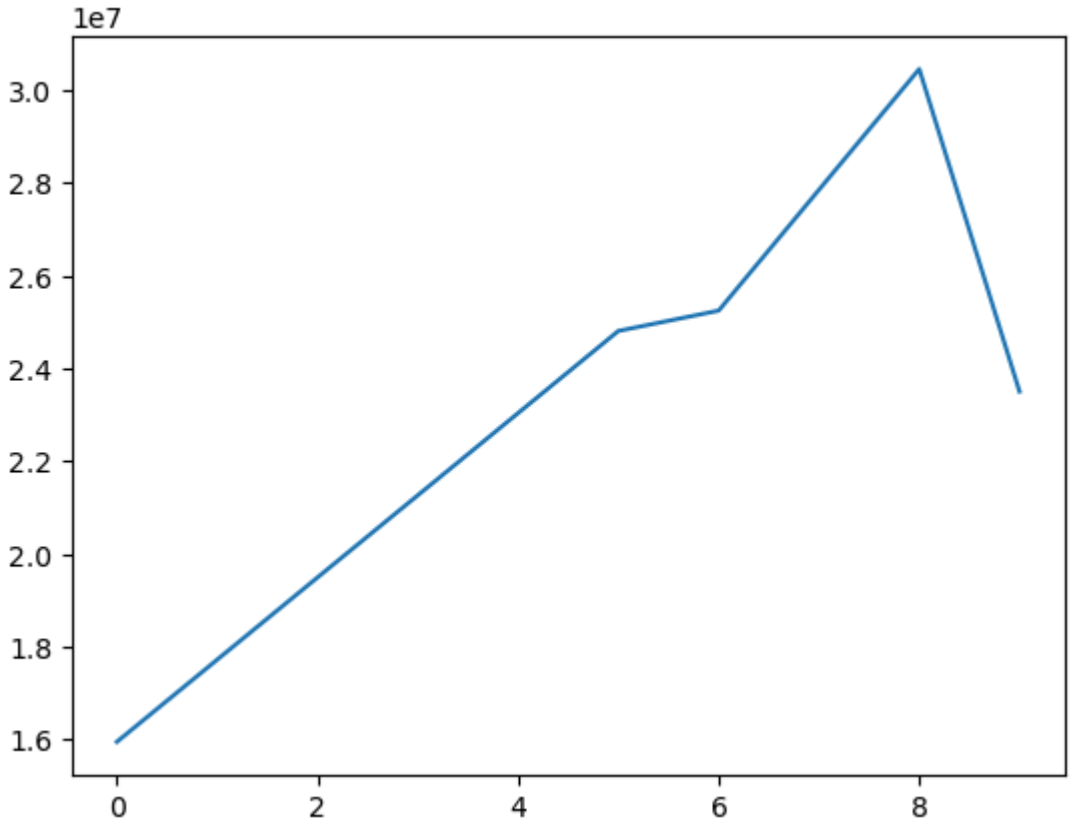
In [13]:
```
import matplotlib.pyplot as plt
import numpy as np
```

In [14]:
```
Salary[0]
```

Out[14]:
```
array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
       25244493, 27849149, 30453805, 23500000])
```

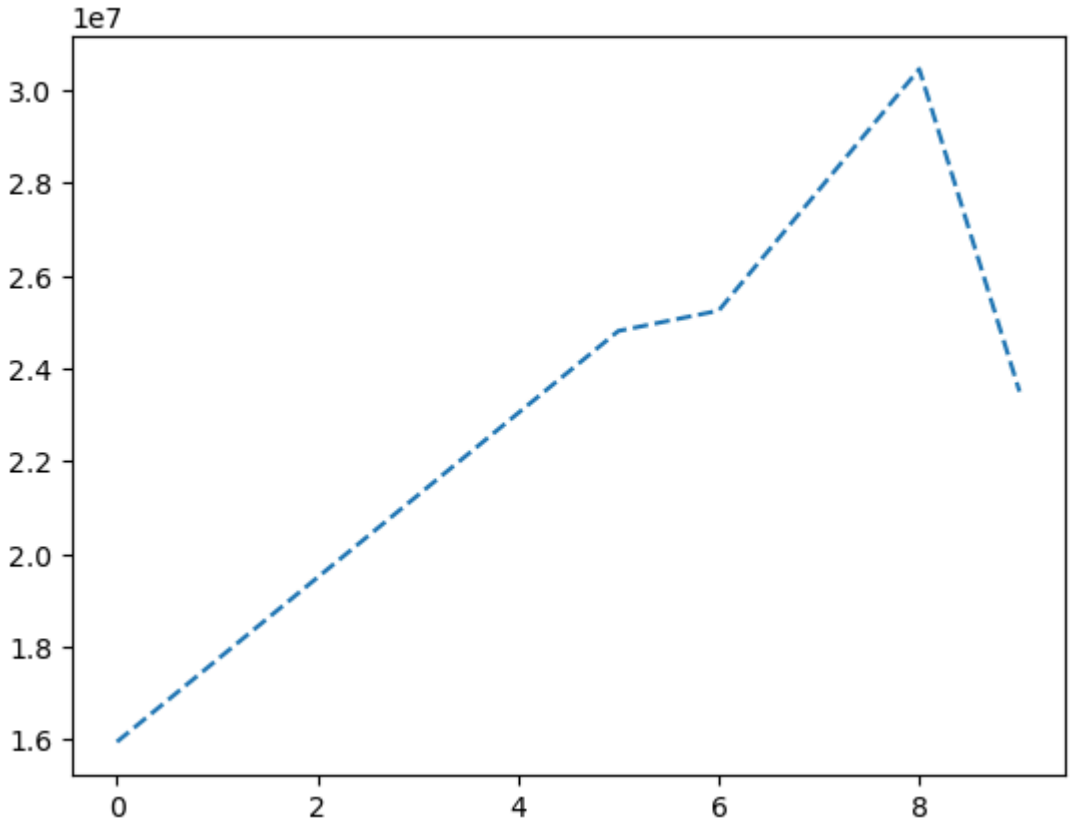
In [15]:
```
plt.plot(Salary[0])
```

Out[15]:
```
[<matplotlib.lines.Line2D at 0x2c34b6091d0>]
```



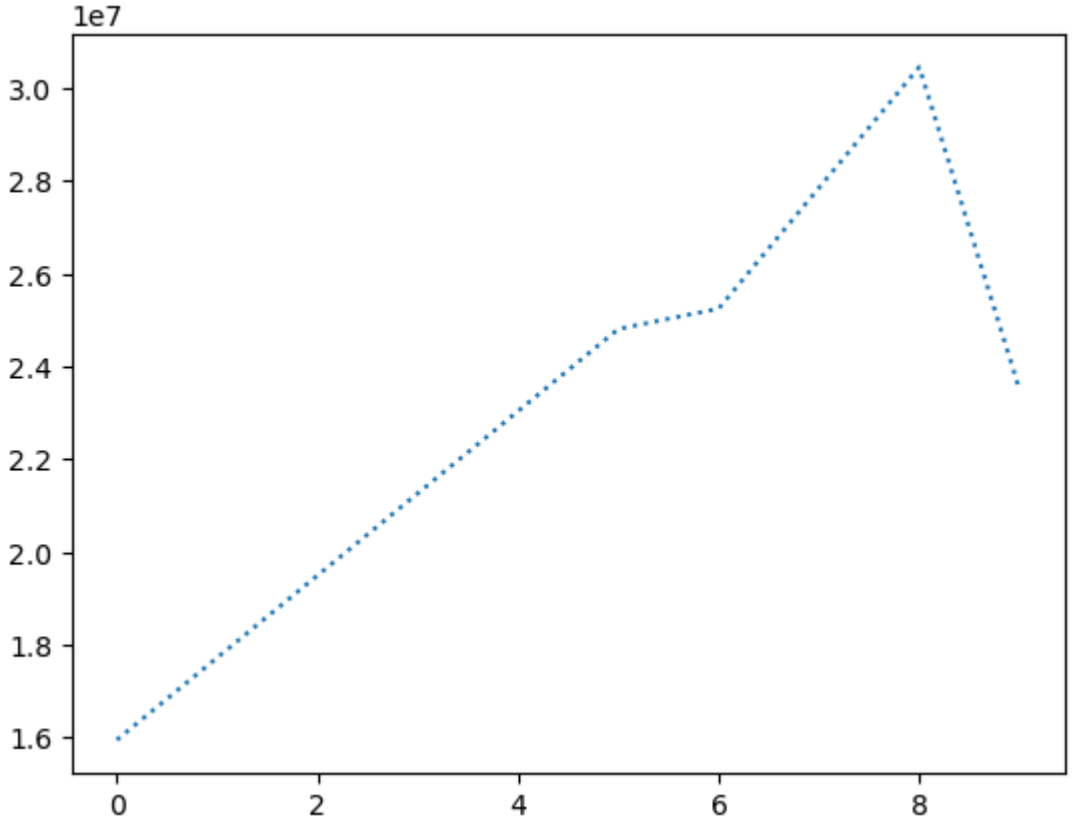
In [16]:
```
plt.plot(Salary[0],ls = '--')
```

Out[16]:
```
[<matplotlib.lines.Line2D at 0x2c34d885810>]
```



In [17]:
```
plt.plot(Salary[0],ls=':')
```

Out[17]:
```
[<matplotlib.lines.Line2D at 0x2c34b6cc7d0>]
```

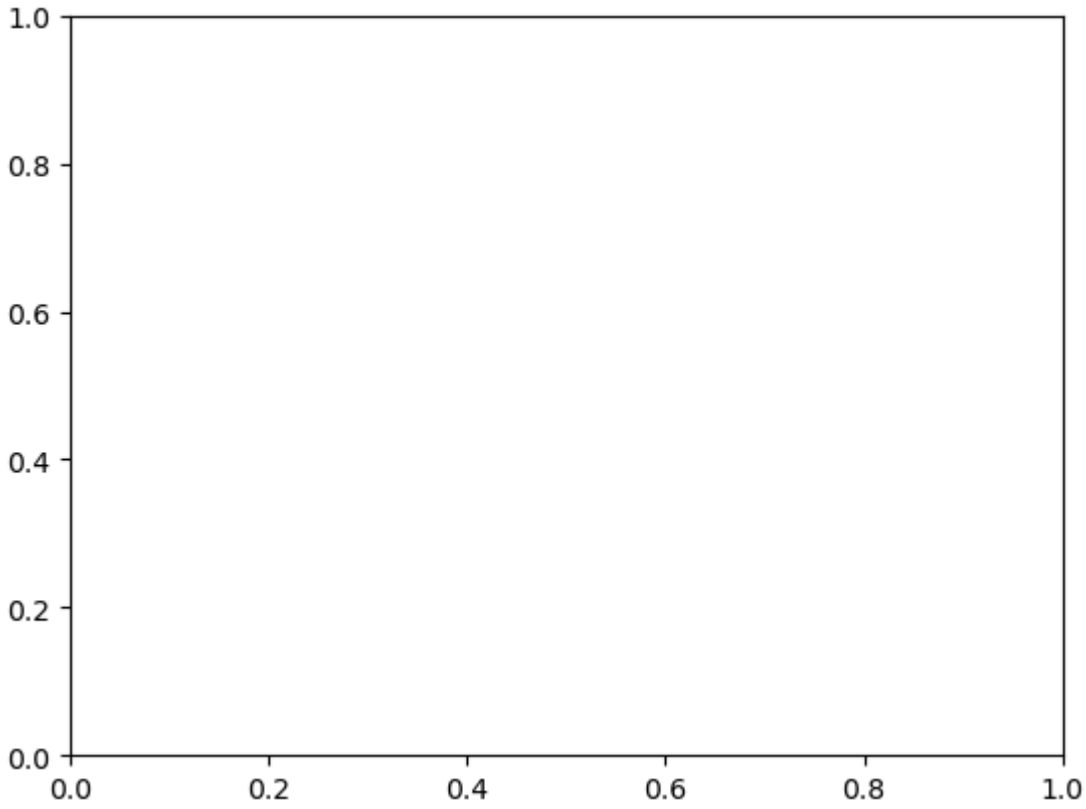


In [ ]:

In [18]:
```
plt.plot(Salary[0],ls='.,')
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[18], line 1
----> 1 plt.plot(Salary[0],ls='.,')

File C:\ProgramData\anaconda3\Lib\site-packages\matplotlib\pyplot.py:3829, in plo
t(scalex, scaley, data, *args, **kwargs)
   3821 @_copy_docstring_and_deprecators(Axes.plot)
   3822 def plot(
   3823     *args: float | ArrayLike | str,
   (...)
   3827     **kwargs,
   3828 ) -> list[Line2D]:
-> 3829     return gca().plot(
   3830         *args,
   3831         scalex=scalex,
   3832         scaley=scaley,
   3833         **({"data": data} if data is not None else {}),
   3834         **kwargs,
   3835     )

File C:\ProgramData\anaconda3\Lib\site-packages\matplotlib\axes\_axes.py:1777, in
Axes.plot(self, scalex, scaley, data, *args, **kwargs)
   1534 """
   1535 Plot y versus x as lines and/or markers.
   1536
   (...)
   1774 (``'green'``) or hex strings (``'#008000'``).
   1775 """
   1776 kwargs = cbook.normalize_kwargs(kwargs, mlines.Line2D)
-> 1777 lines = [*self._get_lines(self, *args, data=data, **kwargs)]
   1778 for line in lines:
   1779     self.add_line(line)

File C:\ProgramData\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:297, in
_process_plot_var_args.__call__(self, axes, data, return_kwargs, *args, **kwargs)
    295     this += args[0],
    296     args = args[1:]
--> 297 yield from self._plot_args(
    298     axes, this, kwargs, ambiguous_fmt_datakey=ambiguous_fmt_datakey,
    299     return_kwargs=return_kwargs
    300 )

File C:\ProgramData\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:546, in
_process_plot_var_args._plot_args(self, axes, tup, kwargs, return_kwargs, ambiguo
us_fmt_datakey)
    544     return list(result)
    545 else:
--> 546     return [l[0] for l in result]

File C:\ProgramData\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:539, in
<genexpr>(.0)
    534 else:
    535     raise ValueError(
    536         f"label must be scalar or have the same length as the input "
    537         f"data, but found {len(label)} for {n_datasets} datasets.")
--> 539 result = (make_artist(axes, x[:, j % ncx], y[:, j % ncy], kw,
    540                       {**kwargs, 'label': label})
    541           for j, label in enumerate(labels))
    543 if return_kwargs:
```

```
    544     return list(result)

File C:\ProgramData\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:338, in
_process_plot_var_args._make_line(self, axes, x, y, kw, kwargs)
    336 kw = {**kw, **kwargs}  # Don't modify the original kw.
    337 self._setdefaults(self._getdefaults(kw), kw)
--> 338 seg = mlines.Line2D(x, y, **kw)
    339 return seg, kw

File C:\ProgramData\anaconda3\Lib\site-packages\matplotlib\lines.py:372, in Line2
D.__init__(self, xdata, ydata, linewidth, linestyle, color, gapcolor, marker, mar
kersize, markeredgewidth, markeredgecolor, markerfacecolor, markerfacecoloralt, f
illstyle, antialiased, dash_capstyle, solid_capstyle, dash_joinstyle, solid_joins
tyle, pickradius, drawstyle, 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 C:\ProgramData\anaconda3\Lib\site-packages\matplotlib\lines.py:1178, in Line
2D.set_linestyle(self, ls)
   1176 if ls in [' ', '', 'none']:
   1177     ls = 'None'
-> 1178 _api.check_in_list([*self._lineStyles, *ls_mapper_r], ls=ls)
   1179 if ls not in self._lineStyles:
   1180     ls = ls_mapper_r[ls]

File C:\ProgramData\anaconda3\Lib\site-packages\matplotlib\_api\__init__.py:130,
in check_in_list(values, _print_supported_values, **kwargs)
    128 if _print_supported_values:
    129     msg += f"; supported values are {', '.join(map(repr, values))}"
--> 130 raise ValueError(msg)

ValueError: ',' is not a valid value for ls; supported values are '-', '--',
'-.', ':', 'None', ' ', '', 'solid', 'dashed', 'dashdot', 'dotted'
```



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

In [ ]:
```
plt.plot(Salary[0],ls = '--',color = 'green' , marker = 'o')
```

In [ ]:
```
plt.plot(Salary[0],ls = '--',color = 'green' , marker = 's')
```

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

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

In [ ]:
```
plt.plot(Salary[0], ls ='--',color = 'green',marker = 's',ms = 8)
```

In [ ]:
```
plt.plot(Salary[0:5],ls='-')
```

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

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

In [ ]:
```
plt.plot(Salary[0],ls='dashdot')
```

In [ ]:
```
plt.plot(Salary[0],ls='-',color='orange',marker='o')
```

In [ ]:
```
plt.plot(Salary[0],ls='-',color='gradientblue',marker='o')
```

In [ ]:
```
plt.plot(Salary[0],ls='-',color='',marker='o')
```

In [ ]:
```
plt.plot(Salary[0],ls='-',color='inkblue',marker='o')
```

In [ ]:
```
plt.plot(Salary[0],ls='-',color='green',marker='d')
```

In [ ]:
```
plt.plot(Salary[0],ls='-',color='green',marker='^')
```

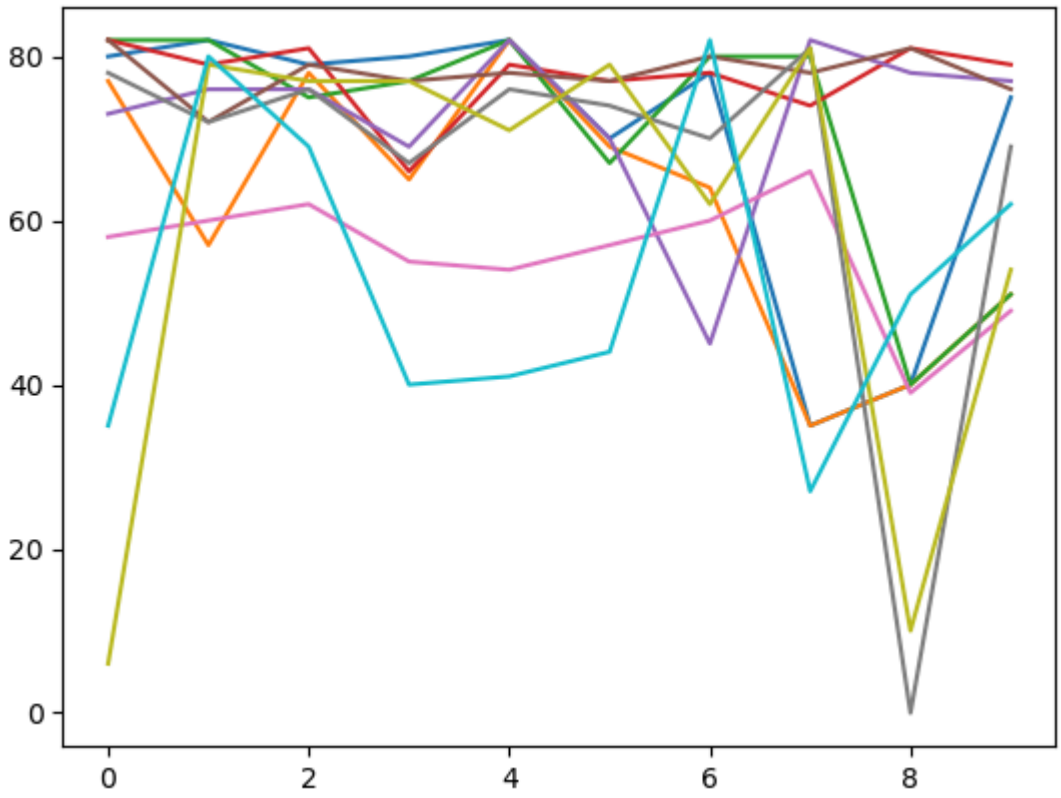
In [ ]:
```
plt.plot(Salary[0],ls='--',marker='p')
```

In [ ]:
```
plt.plot(Salary[0],ls='--',color='green',marker='s',ms=100)
```

In [ ]:
```
plt.plot(Salary[8],ls='--',color='blue',marker='o')
```

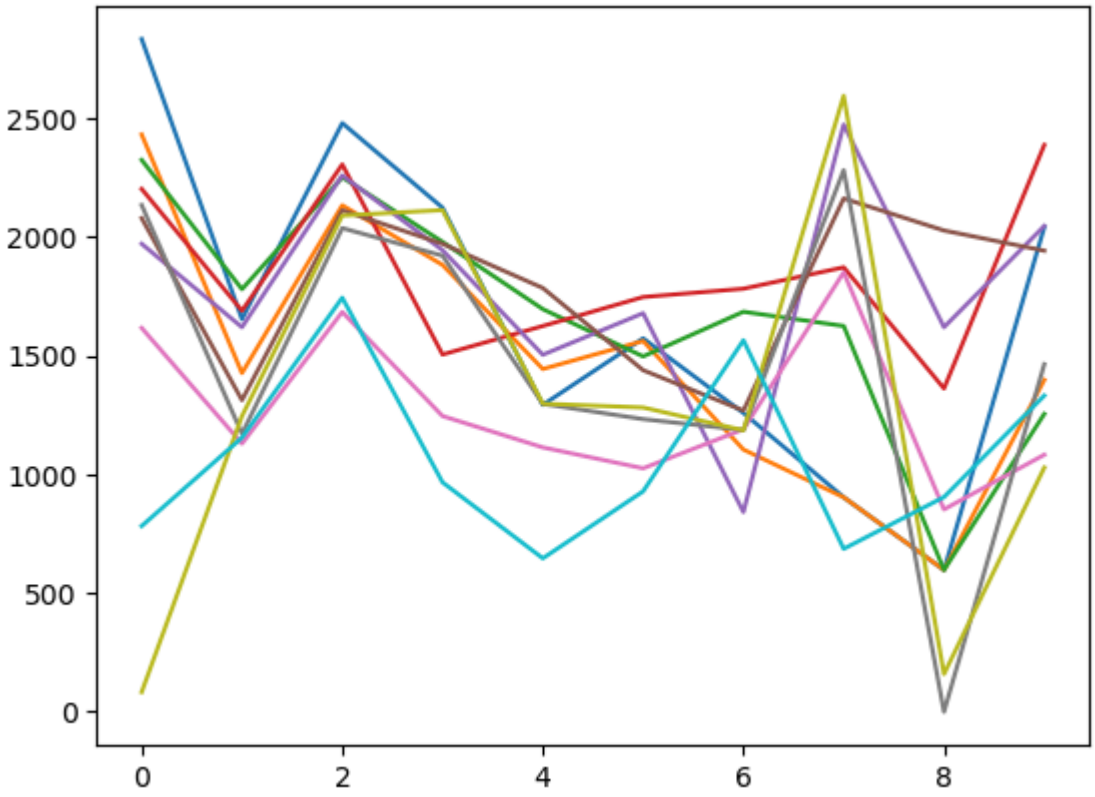
In [19]:
```
plt.plot(Games,ls='-')
```

Out[19]:
```
[<matplotlib.lines.Line2D at 0x2c35369f110>,
 <matplotlib.lines.Line2D at 0x2c35369f250>,
 <matplotlib.lines.Line2D at 0x2c35369f390>,
 <matplotlib.lines.Line2D at 0x2c35369f4d0>,
 <matplotlib.lines.Line2D at 0x2c35369f610>,
 <matplotlib.lines.Line2D at 0x2c35369f750>,
 <matplotlib.lines.Line2D at 0x2c35369f890>,
 <matplotlib.lines.Line2D at 0x2c35369f9d0>,
 <matplotlib.lines.Line2D at 0x2c35369fb10>,
 <matplotlib.lines.Line2D at 0x2c35369fc50>]
```



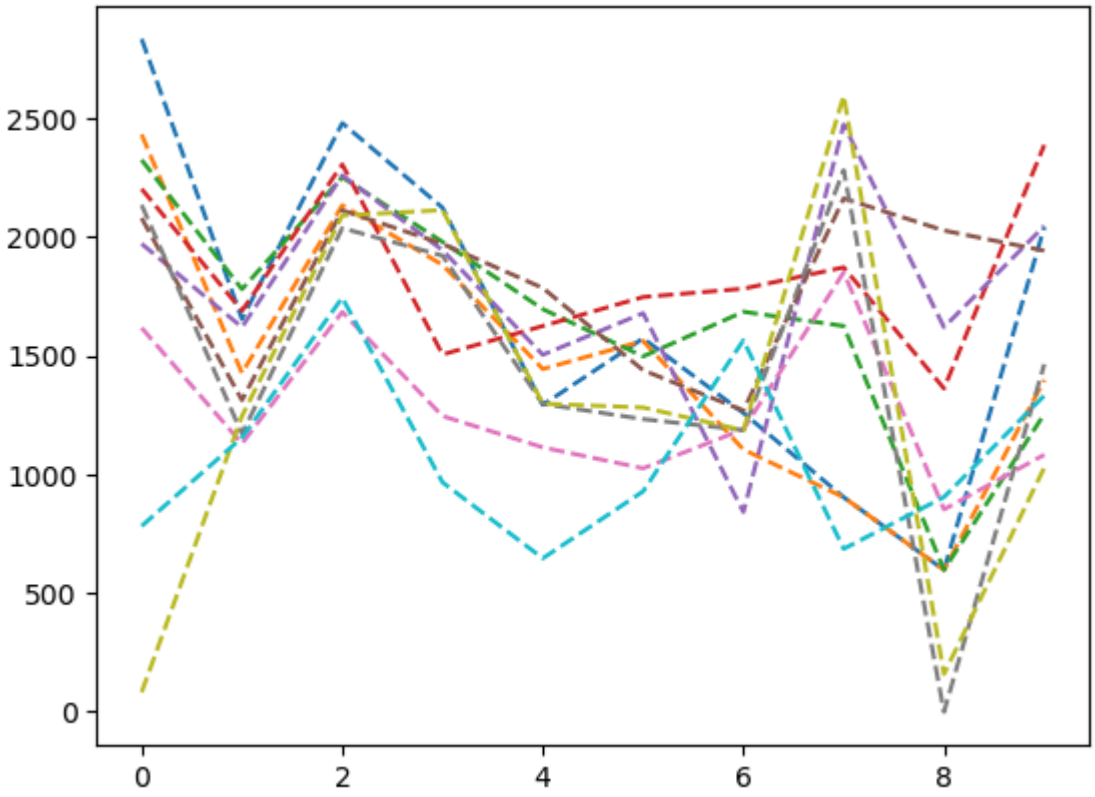
In [20]:
```
plt.plot(Points)
```

Out[20]:
```
[<matplotlib.lines.Line2D at 0x2c35370cf50>,
 <matplotlib.lines.Line2D at 0x2c35370d090>,
 <matplotlib.lines.Line2D at 0x2c35370d1d0>,
 <matplotlib.lines.Line2D at 0x2c35370d310>,
 <matplotlib.lines.Line2D at 0x2c35370d450>,
 <matplotlib.lines.Line2D at 0x2c35370d590>,
 <matplotlib.lines.Line2D at 0x2c35370d6d0>,
 <matplotlib.lines.Line2D at 0x2c35370d810>,
 <matplotlib.lines.Line2D at 0x2c35370d950>,
 <matplotlib.lines.Line2D at 0x2c35370da90>]
```



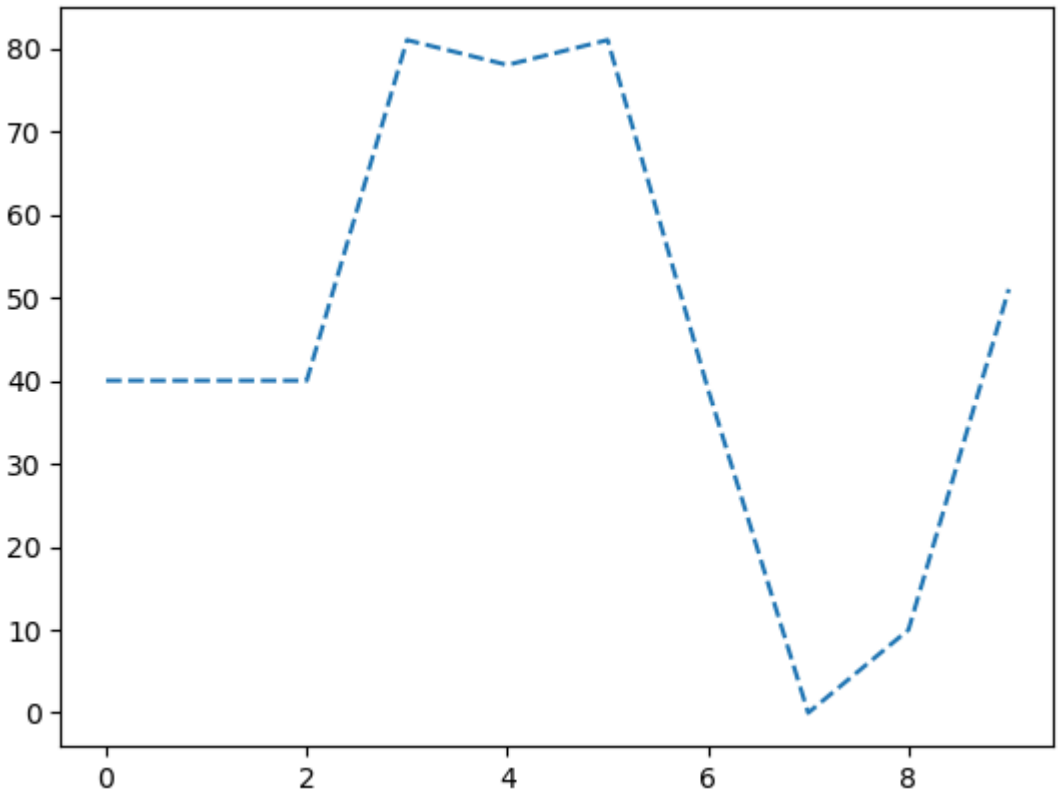
In [21]:
```
plt.plot(Points,ls='--')
```

Out[21]:
```
[<matplotlib.lines.Line2D at 0x2c3538d3110>,
 <matplotlib.lines.Line2D at 0x2c3538d3250>,
 <matplotlib.lines.Line2D at 0x2c3538d3390>,
 <matplotlib.lines.Line2D at 0x2c3538d34d0>,
 <matplotlib.lines.Line2D at 0x2c3538d3610>,
 <matplotlib.lines.Line2D at 0x2c3538d3750>,
 <matplotlib.lines.Line2D at 0x2c3538d3890>,
 <matplotlib.lines.Line2D at 0x2c3538d39d0>,
 <matplotlib.lines.Line2D at 0x2c3538d3b10>,
 <matplotlib.lines.Line2D at 0x2c3538d3c50>]
```

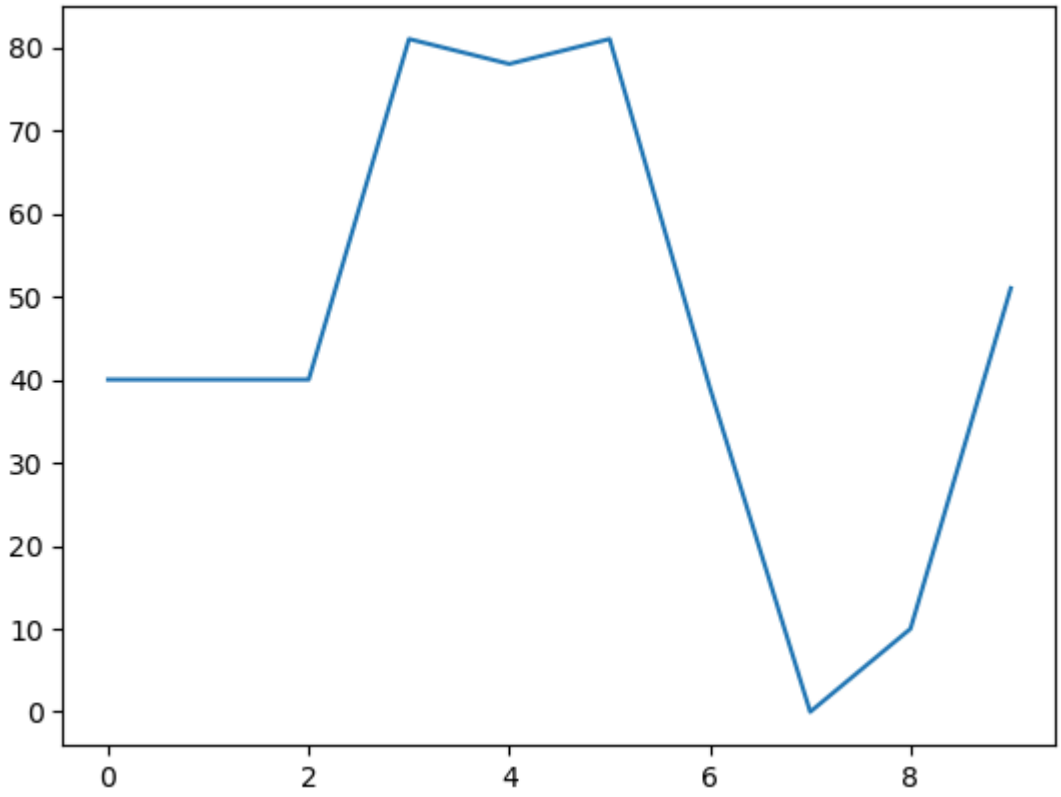


In [22]:
```
plt.plot(Games[8],ls='--')
```

Out[22]:
```
[<matplotlib.lines.Line2D at 0x2c353711310>]
```

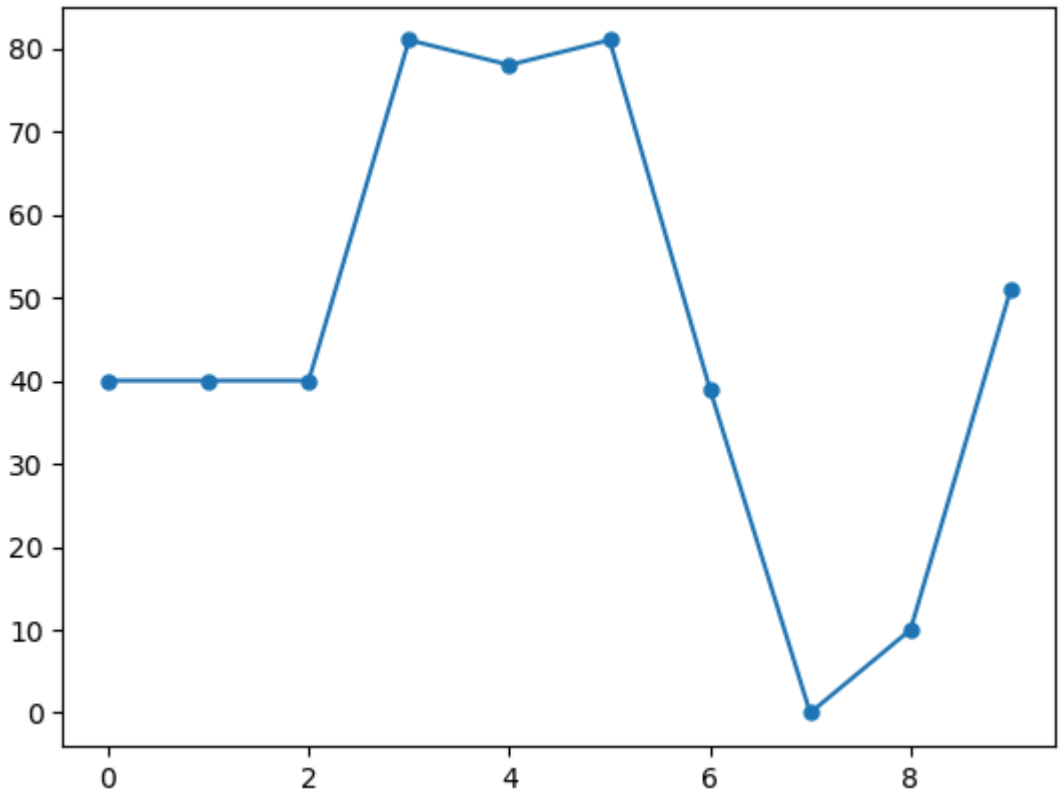


In [23]:
```
plt.plot(Games[8])
plt.show()
```



In [24]:
```
plt.plot(Games[8],ls='-',marker='o',ms=5)
```

Out[24]:
```
[<matplotlib.lines.Line2D at 0x2c353a32d50>]
```



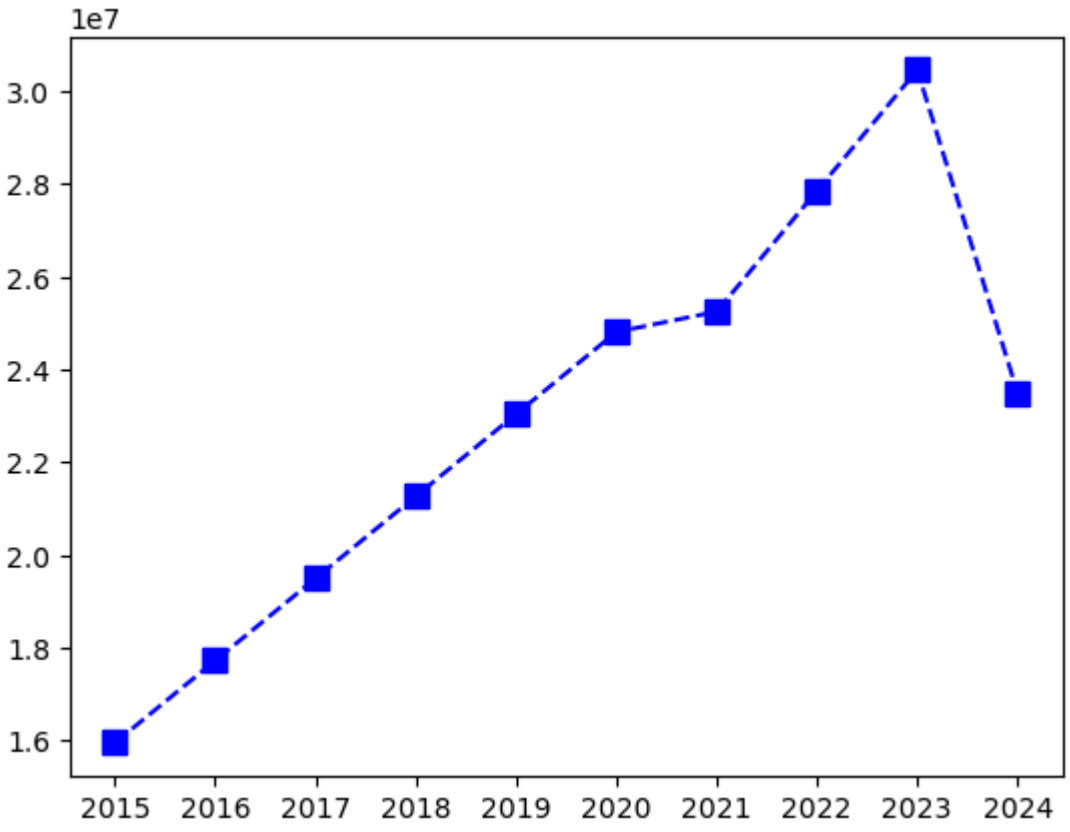
In [25]:
```
Sdict
```

Out[25]:
```
{'2015': 0,
 '2016': 1,
 '2017': 2,
 '2018': 3,
 '2019': 4,
 '2020': 5,
 '2021': 6,
 '2022': 7,
 '2023': 8,
 '2024': 9}
```

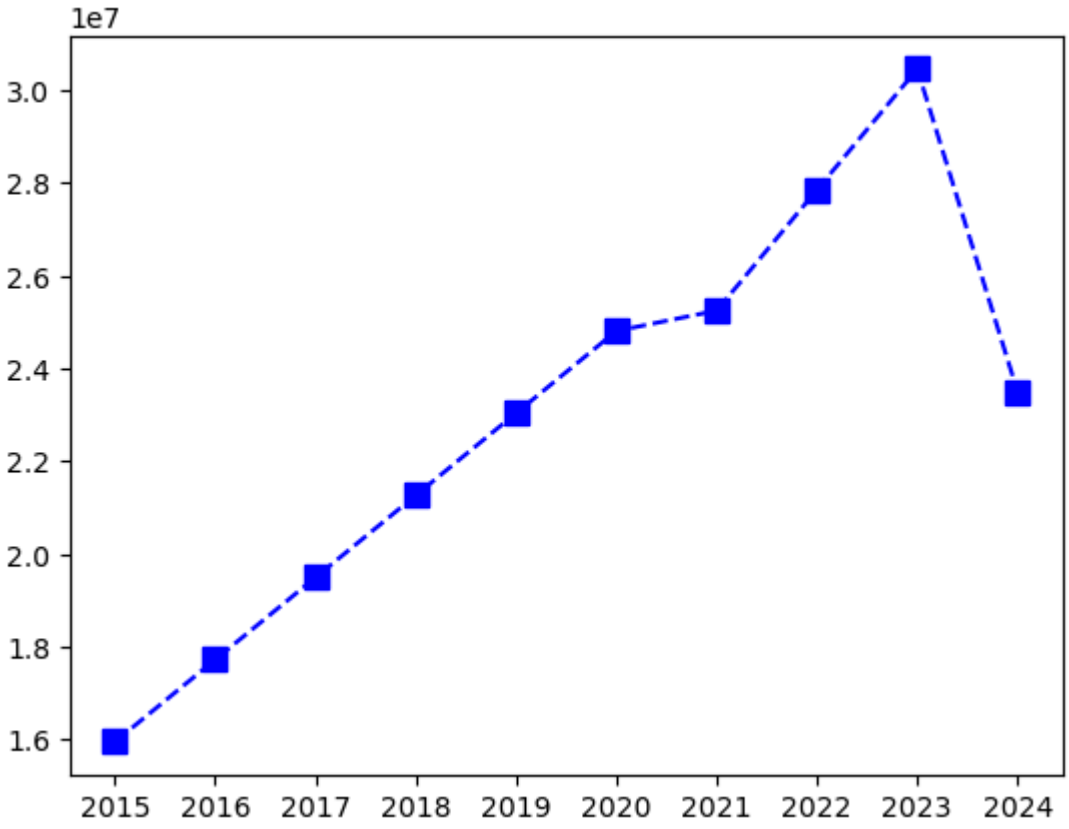
In [26]:
```
Pdict
```

Out[26]:
```
{'Sachin': 0,
 'Rahul': 1,
 'Smith': 2,
 'Sami': 3,
 'Pollard': 4,
 'Morris': 5,
 'Samson': 6,
 'Dhoni': 7,
 'Kohli': 8,
 'Sky': 9}
```

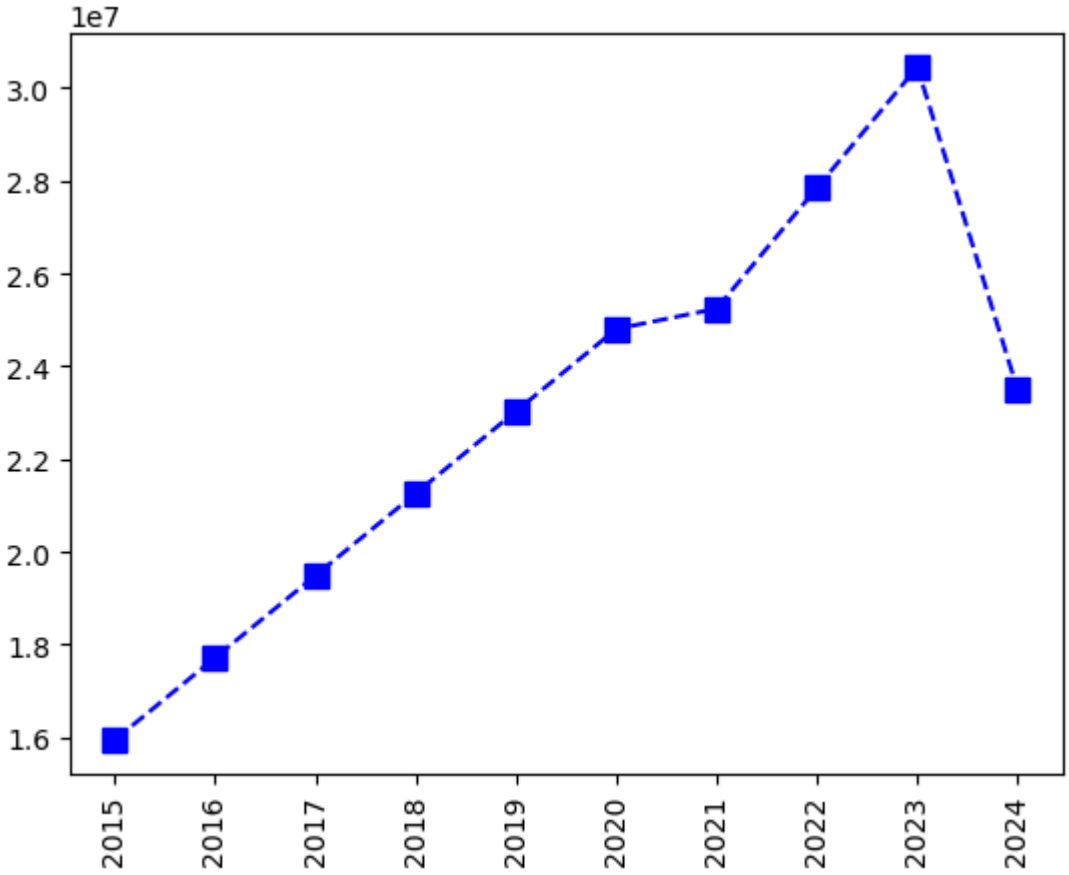
In [27]:
```
plt.plot(Salary[0],c='blue',ls = '--',marker = 's',ms=8)
plt.xticks(list(range(0,10)),Seasons)
plt.show()
```



In [28]:
```
plt.plot(Salary[0],c='blue',ls = '--',marker = 's',ms=8)
plt.xticks(list(range(0,10)),Seasons)
plt.show()
```



In [29]:
```
plt.plot(Salary[0],c='blue',ls = '--',marker = 's',ms=8)
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```

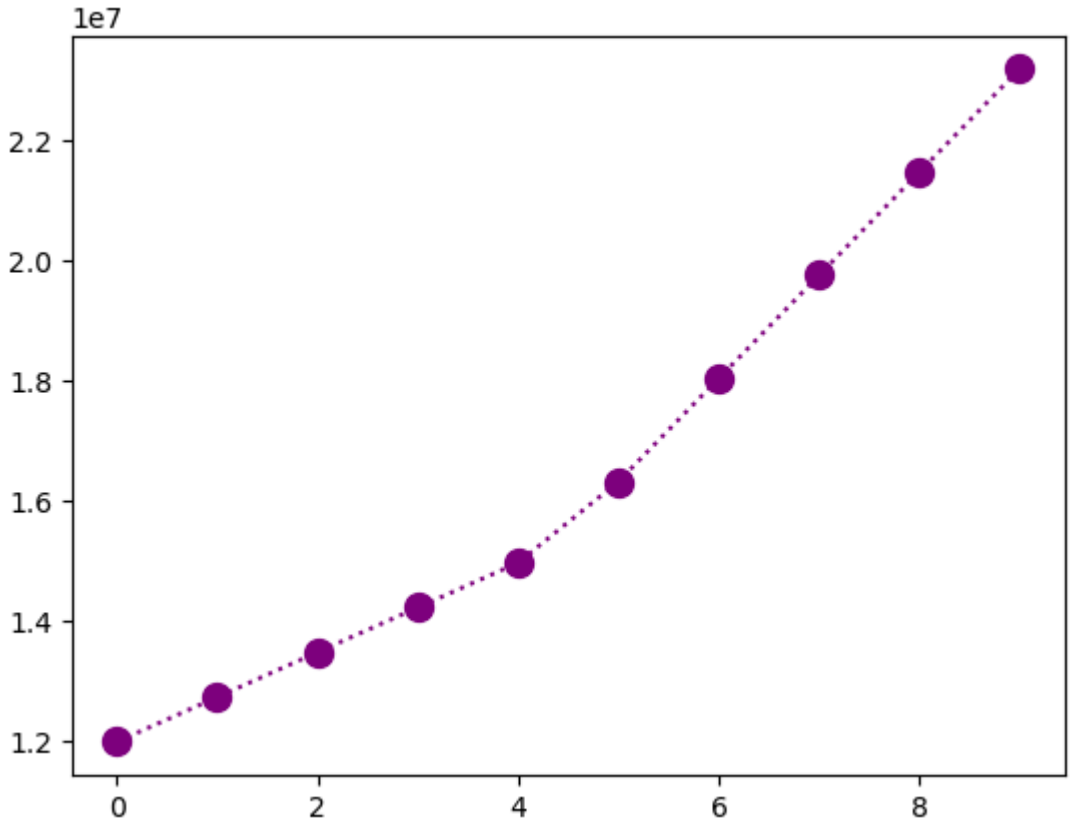


In [30]:
```
Salary[1]
```

Out[30]:
```
array([12000000, 12744189, 13488377, 14232567, 14976754, 16324500,
       18038573, 19752645, 21466718, 23180790])
```

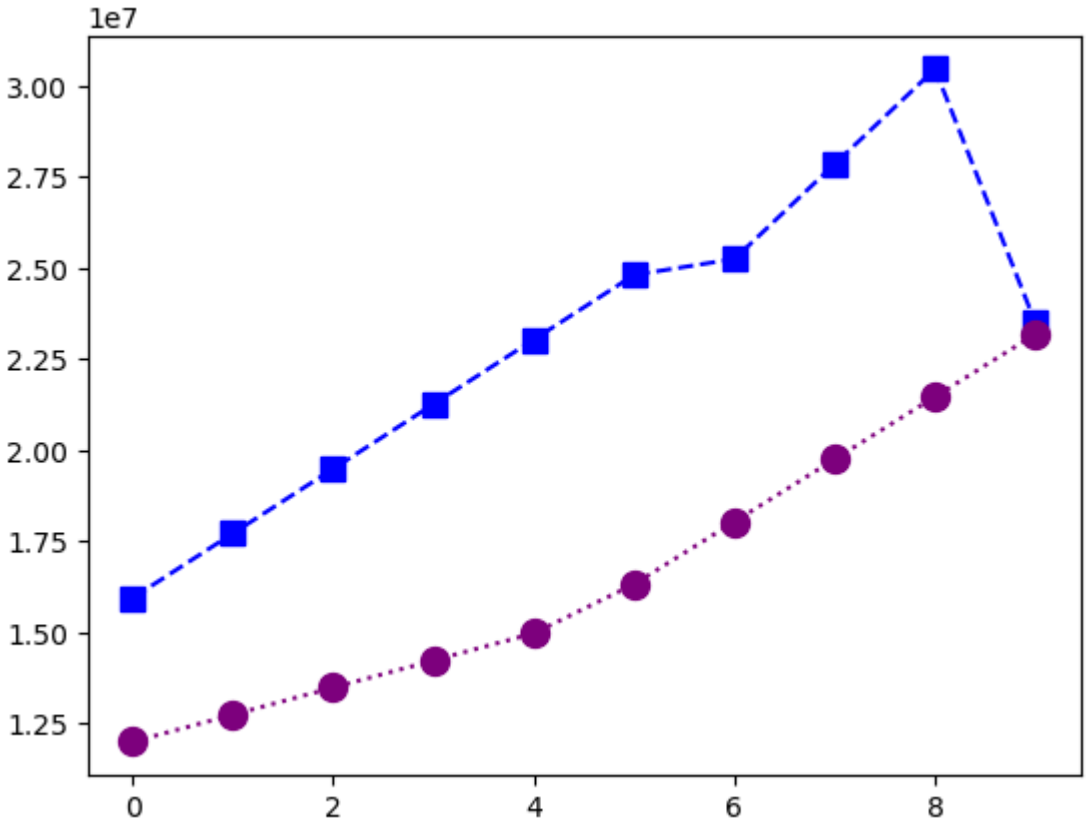
In [31]:
```
plt.plot(Salary[1],c='purple',ls=':',marker='o',ms=10)
```

Out[31]:
```
[<matplotlib.lines.Line2D at 0x2c3539c2ad0>]
```



In [32]:
```
plt.plot(Salary[0],c='blue',ls='--',marker='s',ms=8)
plt.plot(Salary[1],c='purple',ls=':',marker='o',ms=10)
```

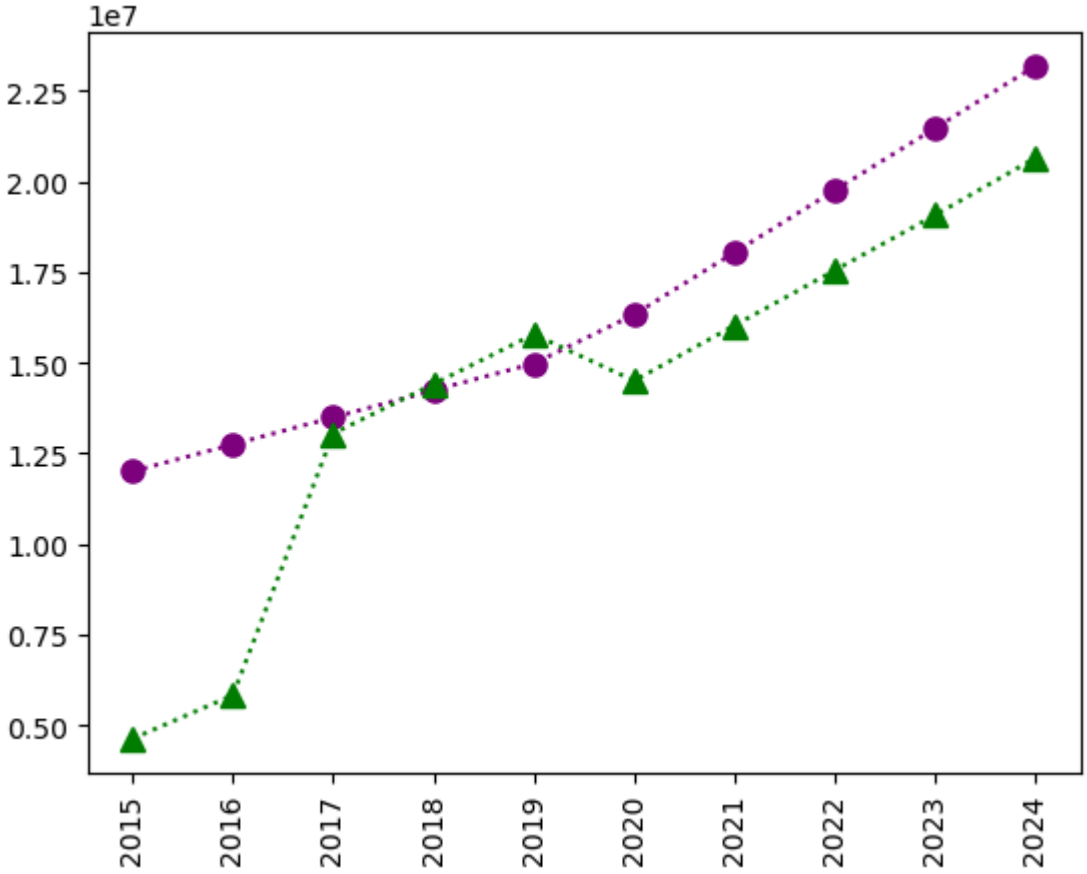
Out[32]:
```
[<matplotlib.lines.Line2D at 0x2c354b94550>]
```



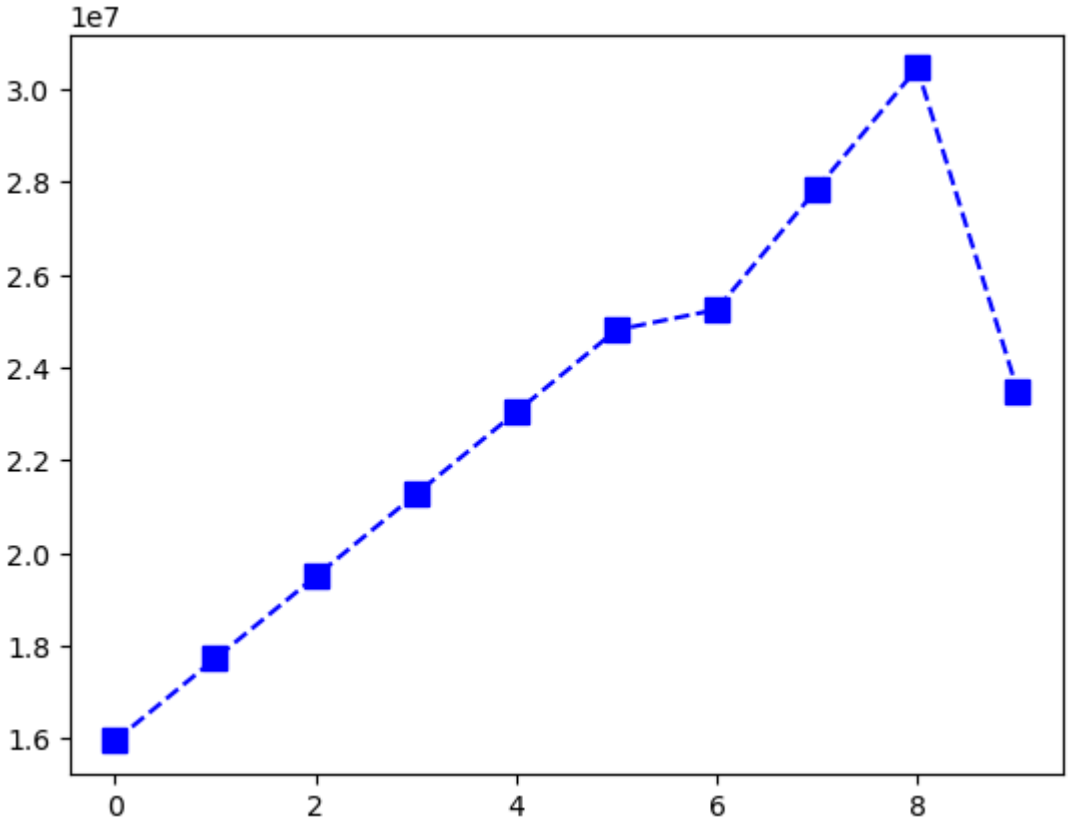
In [33]:
```
Games
```

Out[33]:
```
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 [34]:
```
plt.plot(Salary[1],c='purple',ls=':',marker='o',ms=8)
plt.plot(Salary[2],c='green',ls=':',marker='^',ms=8)
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
plt.plot(Salary[0],c='blue',ls='--',marker='s',ms=8)
```

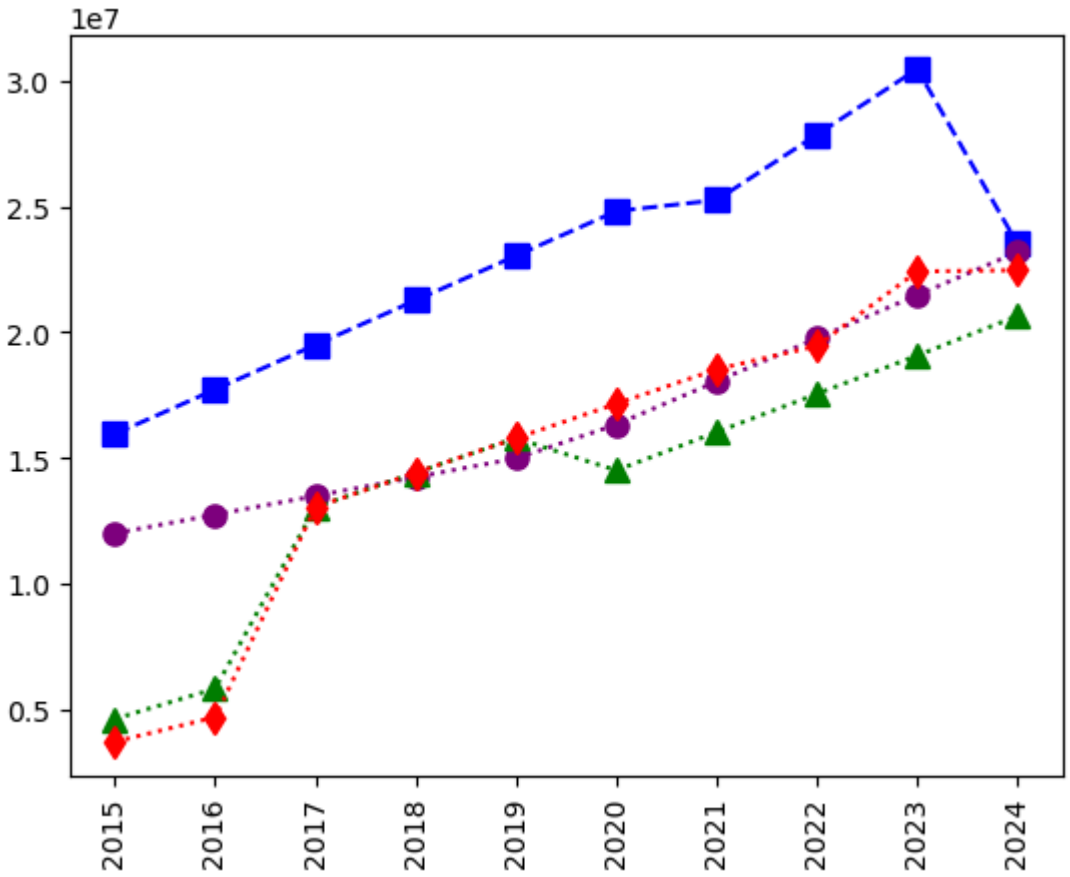


Out[34]: [<matplotlib.lines.Line2D at 0x2c354c7a990>]

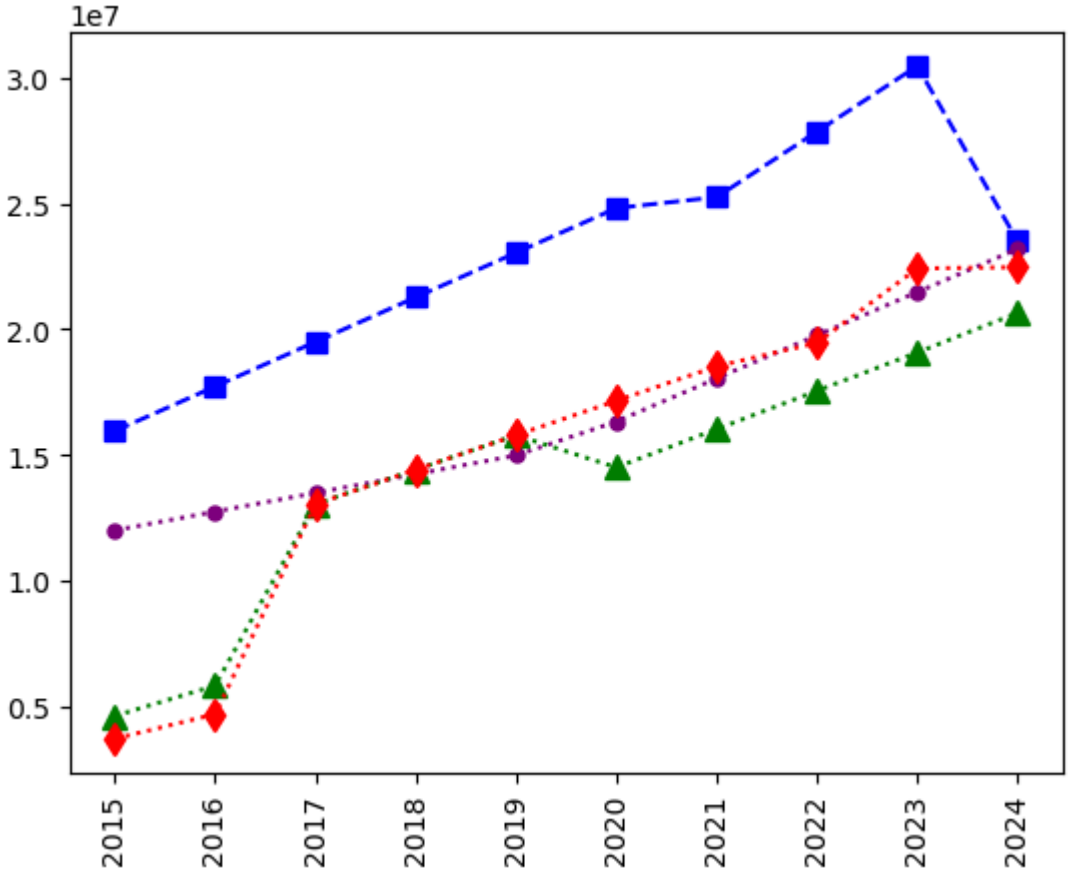


In [35]:
```
plt.plot(Salary[0],c='blue',ls='--',marker='s',ms=8)
plt.plot(Salary[1],c='purple',ls=':',marker='o',ms=8)
plt.plot(Salary[2],c='green',ls=':',marker='^',ms=8)
plt.plot(Salary[3],c='red',ls=':',marker='d',ms=8)
```

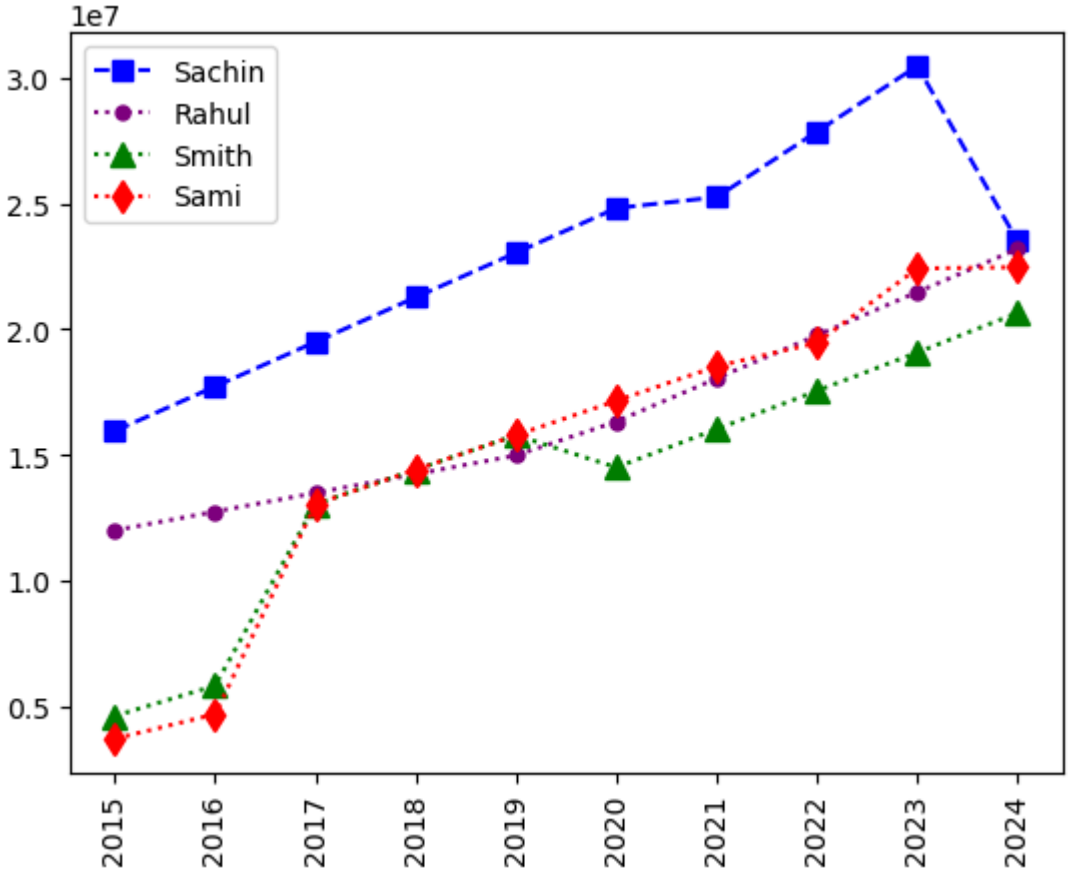
```
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```



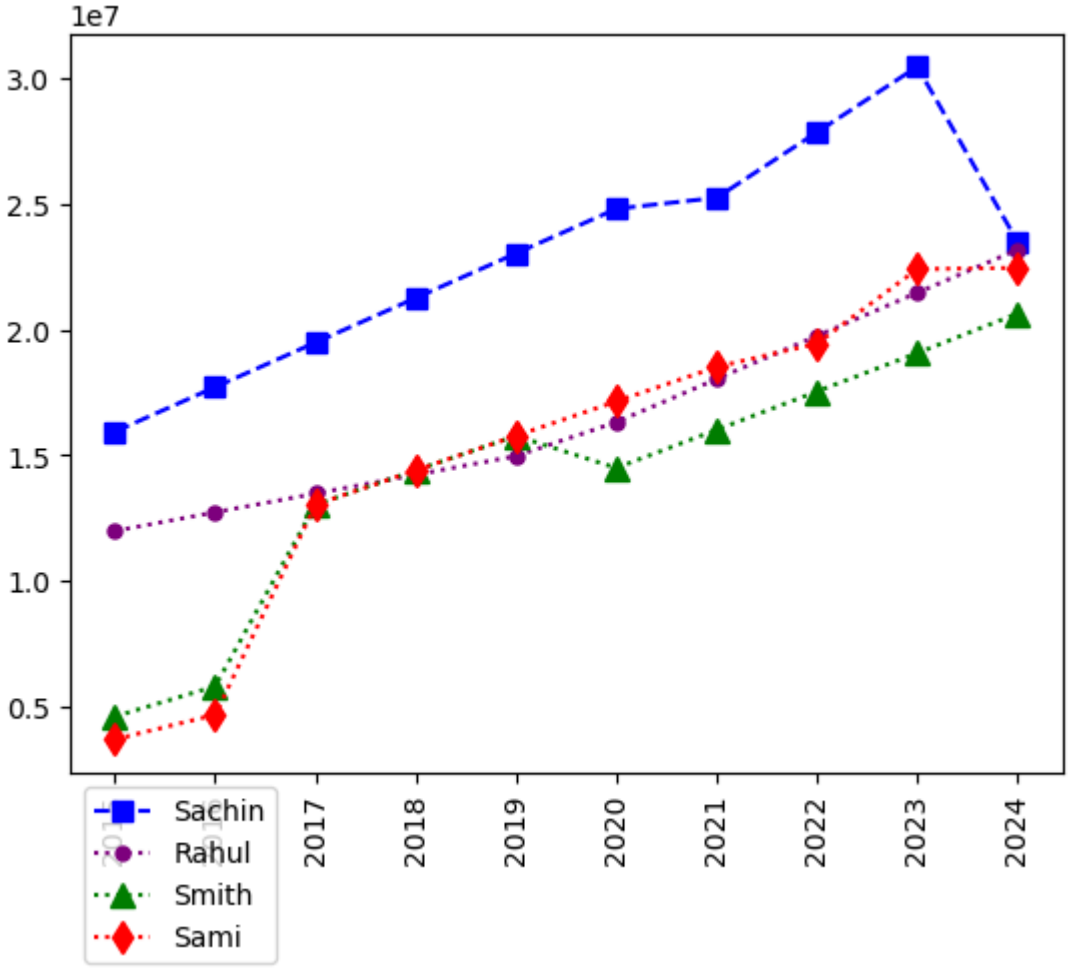
In [36]:
```
plt.plot(Salary[0],c='blue',ls='--',marker='s',ms=7,label=Players[0])
plt.plot(Salary[1],c='purple',ls=':',marker='o',ms=5,label=Players[1])
plt.plot(Salary[2],c='green',ls=':',marker='^',ms=8,label=Players[2])
plt.plot(Salary[3],c='red',ls=':',marker='d',ms=8,label=Players[3])
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```



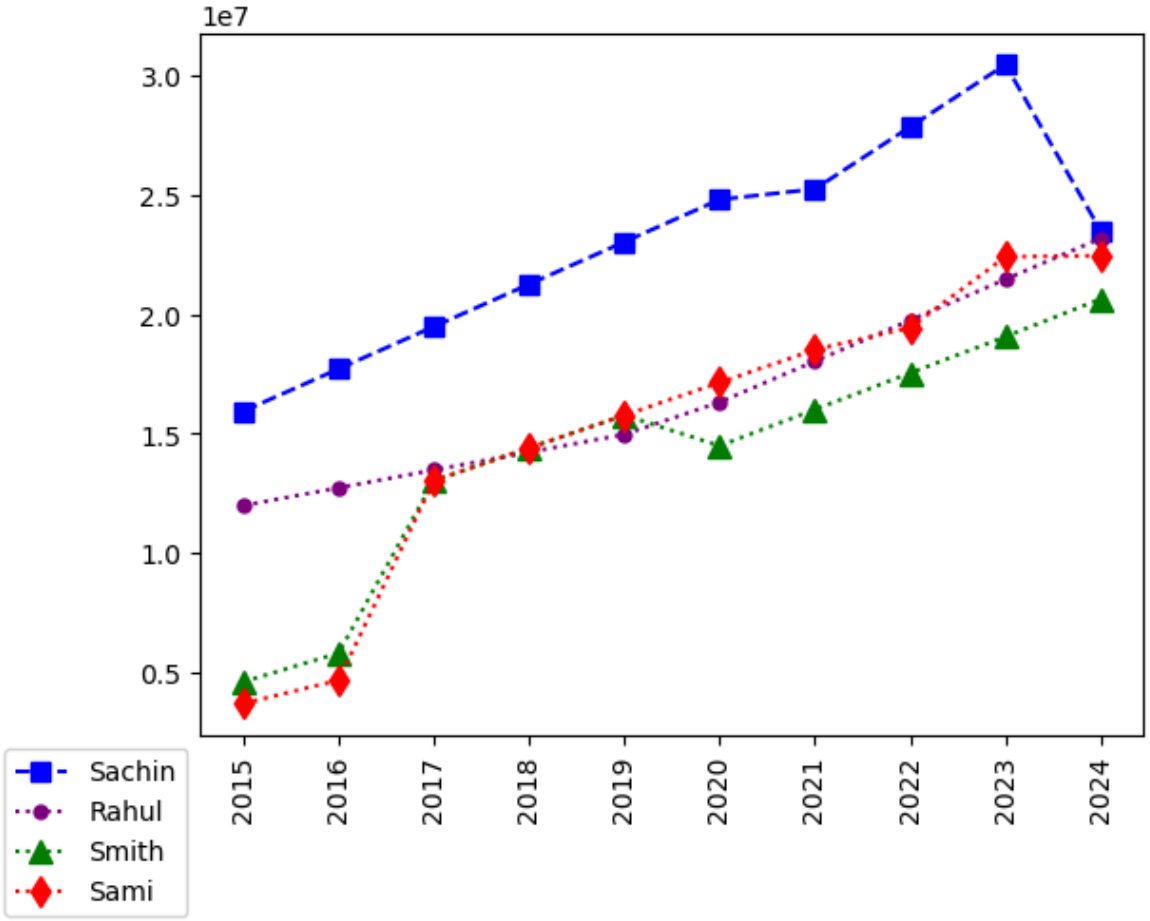
In [37]:
```
# How to add legend in visualisation
plt.plot(Salary[0],c='blue',ls='--',marker='s',ms=7,label=Players[0])
plt.plot(Salary[1],c='purple',ls=':',marker='o',ms=5,label=Players[1])
plt.plot(Salary[2],c='green',ls=':',marker='^',ms=8,label=Players[2])
plt.plot(Salary[3],c='red',ls=':',marker='d',ms=8,label=Players[3])
plt.legend()
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```



In [38]:
```
plt.plot(Salary[0],c='blue',ls='--',marker='s',ms=7,label=Players[0])
plt.plot(Salary[1],c='purple',ls=':',marker='o',ms=5,label=Players[1])
plt.plot(Salary[2],c='green',ls=':',marker='^',ms=8,label=Players[2])
plt.plot(Salary[3],c='red',ls=':',marker='d',ms=8,label=Players[3])
plt.legend(loc = 'upper left',bbox_to_anchor=(0,0))
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```

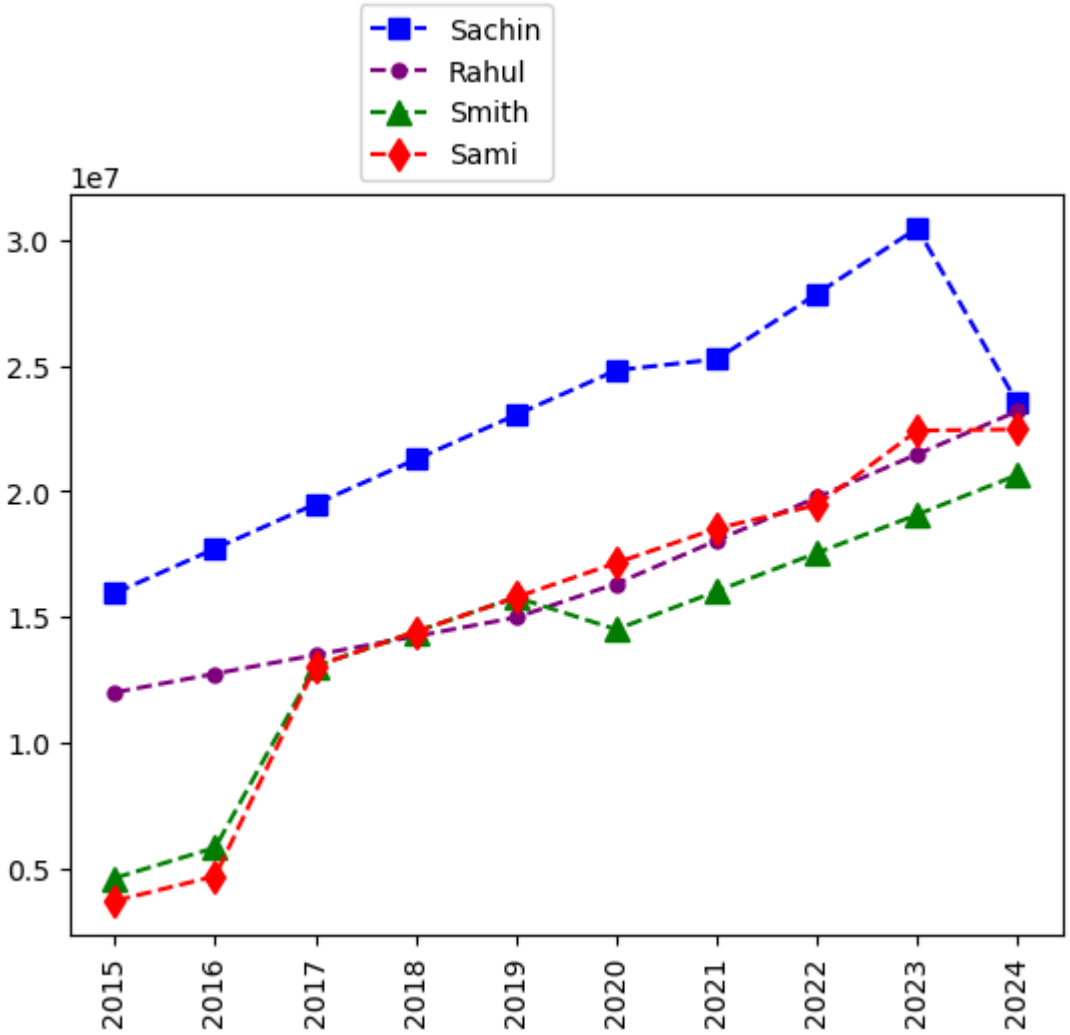


In [39]:
```
plt.plot(Salary[0],c='blue',ls='--',marker='s',ms=7,label=Players[0])
plt.plot(Salary[1],c='purple',ls=':',marker='o',ms=5,label=Players[1])
plt.plot(Salary[2],c='green',ls=':',marker='^',ms=8,label=Players[2])
plt.plot(Salary[3],c='red',ls=':',marker='d',ms=8,label=Players[3])
plt.legend(loc = 'upper right',bbox_to_anchor=(0,0))
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```



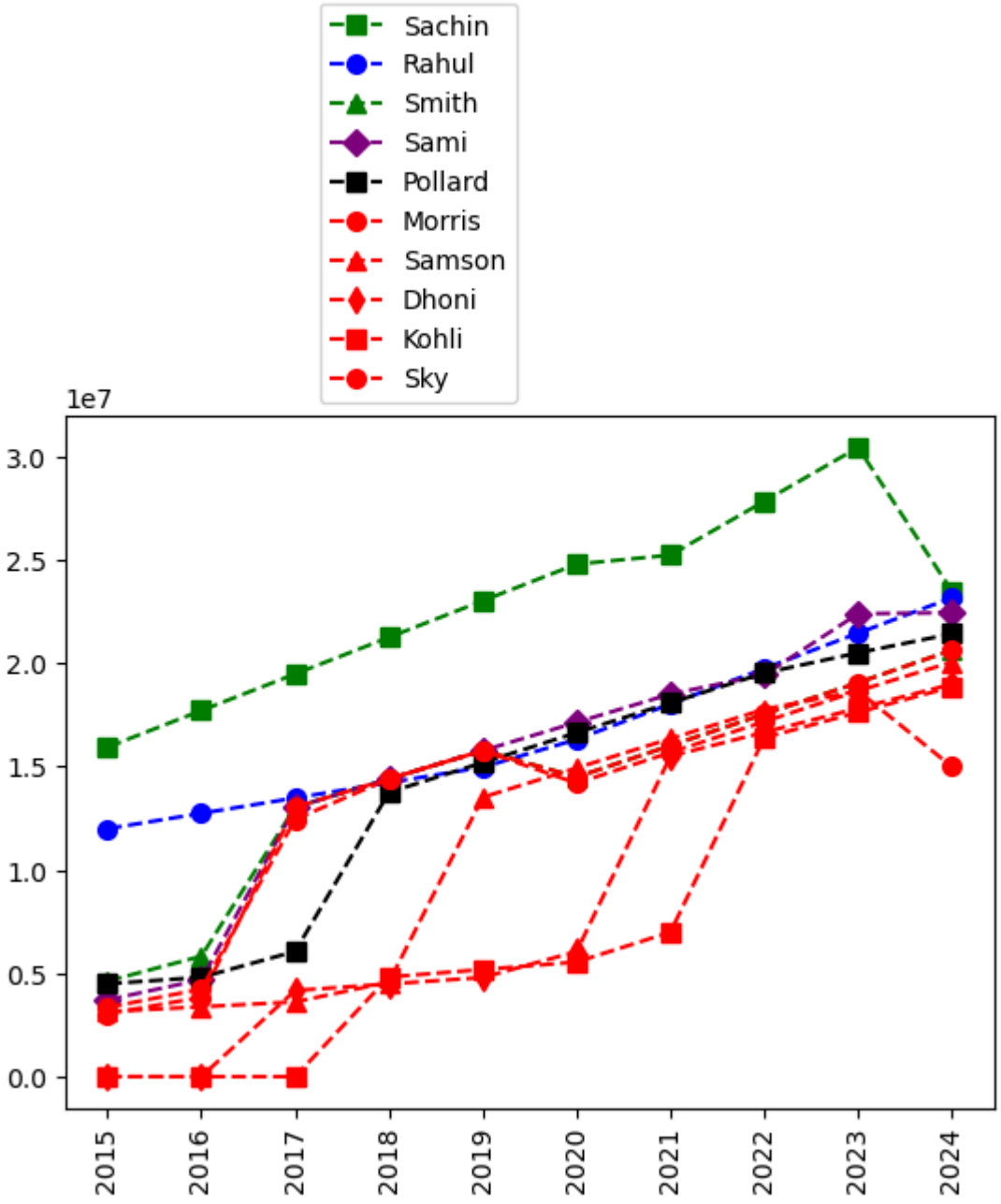
In [42]:
```
plt.plot(Salary[0],c='blue',ls='--',marker='s',ms=7,label=Players[0])
plt.plot(Salary[1],c='purple',ls=':',marker='o',ms=5,label=Players[1])
plt.plot(Salary[2],c='green',ls=':',marker='^',ms=8,label=Players[2])
plt.plot(Salary[3],c='red',ls=':',marker='d',ms=8,label=Players[3])
plt.legend(loc = 'lower left',bbox_to_anchor=(5.0,1))
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```

In [44]:
```
plt.plot(Salary[0],c='blue',ls='--',marker='s',ms=7,label=Players[0])
plt.plot(Salary[1],c='purple',ls='--',marker='o',ms=5,label=Players[1])
plt.plot(Salary[2],c='green',ls='--',marker='^',ms=8,label=Players[2])
plt.plot(Salary[3],c='red',ls='--',marker='d',ms=8,label=Players[3])
plt.legend(loc = 'lower right',bbox_to_anchor=(0.5,1))
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
plt.show()
```



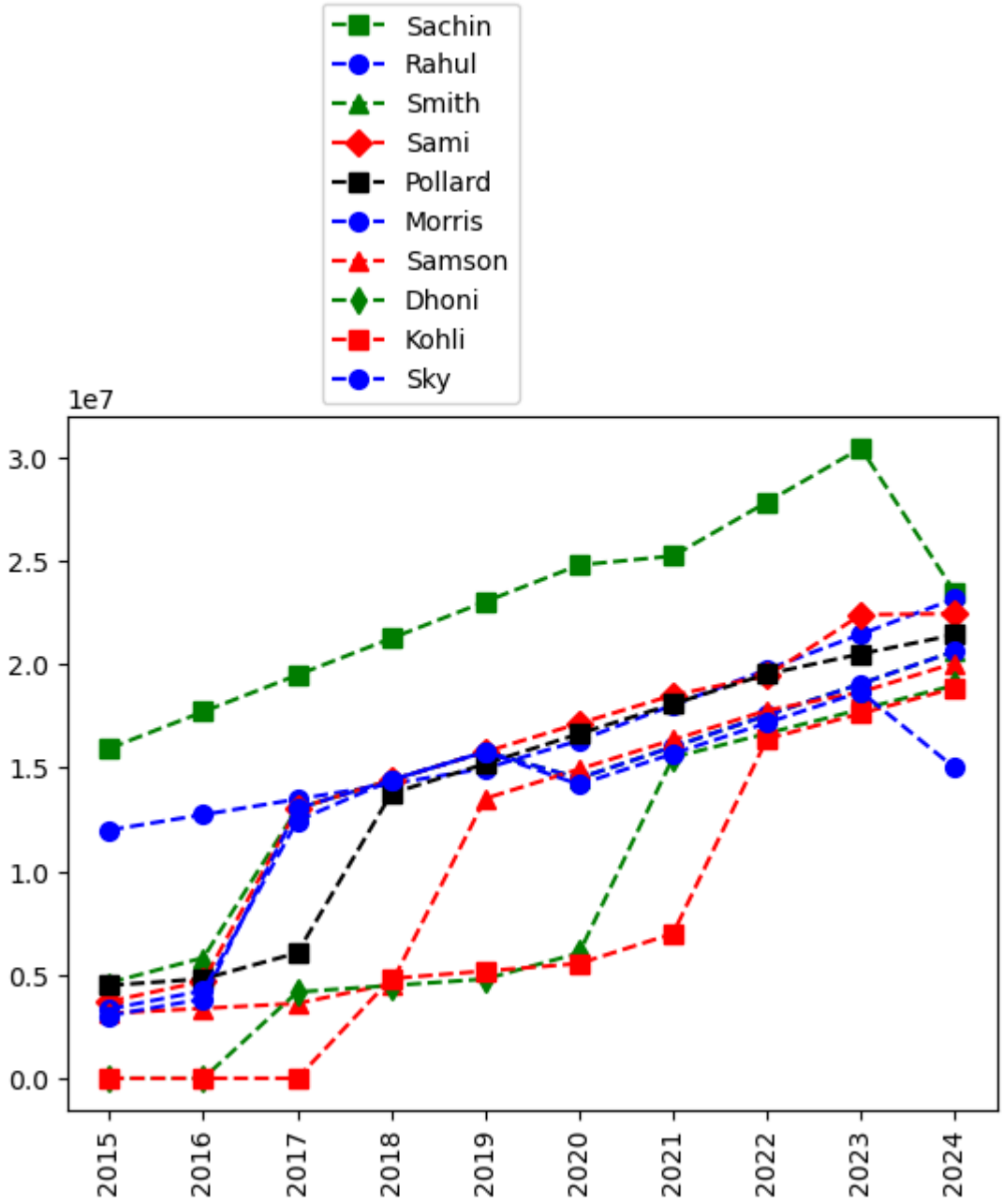
In [47]:
```
plt.plot(Salary[0], c='Green',ls = '--', marker = 's',ms = 7, label = Players[0]
plt.plot(Salary[1], c='Blue',ls = '--', marker = 'o',ms = 7, label = Players[1])
plt.plot(Salary[2], c='Green',ls = '--', marker = '^',ms = 7, label = Players[2]
plt.plot(Salary[3], c='Purple',ls = '--', marker = 'D',ms = 7, label = Players[3
plt.plot(Salary[4], c='Black',ls = '--', marker = 's',ms = 7, label = Players[4]
plt.plot(Salary[5], c='Red',ls = '--', marker = 'o',ms = 7, label = Players[5])
plt.plot(Salary[6], c='Red',ls = '--', marker = '^',ms = 7, label = Players[6])
plt.plot(Salary[7], c='Red',ls = '--', marker = 'd',ms = 7, label = Players[7])
plt.plot(Salary[8], c='Red',ls = '--', marker = 's',ms = 7, label = Players[8])
plt.plot(Salary[9], c='Red',ls = '--',marker = 'o',ms = 7, label = Players[9])

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

```
Out[47]: ([<matplotlib.axis.XTick at 0x2c356e91f90>,
           <matplotlib.axis.XTick at 0x2c356efd6d0>,
           <matplotlib.axis.XTick at 0x2c356efde50>,
           <matplotlib.axis.XTick at 0x2c356efe5d0>,
           <matplotlib.axis.XTick at 0x2c356efed50>,
           <matplotlib.axis.XTick at 0x2c356eff4d0>,
           <matplotlib.axis.XTick at 0x2c356effc50>,
           <matplotlib.axis.XTick at 0x2c356f20410>,
           <matplotlib.axis.XTick at 0x2c356f20b90>,
           <matplotlib.axis.XTick at 0x2c356f21310>],
          [Text(0, 0, '2015'),
           Text(1, 0, '2016'),
           Text(2, 0, '2017'),
           Text(3, 0, '2018'),
           Text(4, 0, '2019'),
           Text(5, 0, '2020'),
           Text(6, 0, '2021'),
           Text(7, 0, '2022'),
           Text(8, 0, '2023'),
           Text(9, 0, '2024')])
```



In [48]:
```
plt.plot(Salary[0], c='Green',ls = '--', marker = 's',ms = 7, label = Players[0]
plt.plot(Salary[1], c='Blue',ls = '--', marker = 'o',ms = 7, label = Players[1])
plt.plot(Salary[2], c='Green',ls = '--', marker = '^',ms = 7, label = Players[2]
plt.plot(Salary[3], c='Red',ls = '--', marker = 'D',ms = 7, label = Players[3])
plt.plot(Salary[4], c='Black',ls = '--', marker = 's',ms = 7, label = Players[4]
plt.plot(Salary[5], c='Blue',ls = '--', marker = 'o',ms = 7, label = Players[5])
plt.plot(Salary[6], c='Red',ls = '--', marker = '^',ms = 7, label = Players[6])
plt.plot(Salary[7], c='Green',ls = '--', marker = 'd',ms = 7, label = Players[7]
plt.plot(Salary[8], c='Red',ls = '--', marker = 's',ms = 7, label = Players[8])
plt.plot(Salary[9], c='Blue',ls = '--',marker = 'o',ms = 7, label = Players[9])
plt.legend(loc = 'lower right',bbox_to_anchor=(0.5,1))
plt.xticks(list(range(0,10)),Seasons,rotation='vertical')
```

Out[48]:
```
([<matplotlib.axis.XTick at 0x2c356f3e710>,
  <matplotlib.axis.XTick at 0x2c356fc5e50>,
  <matplotlib.axis.XTick at 0x2c356fc65d0>,
  <matplotlib.axis.XTick at 0x2c356fc6d50>,
  <matplotlib.axis.XTick at 0x2c356fc74d0>,
  <matplotlib.axis.XTick at 0x2c356fc7c50>,
  <matplotlib.axis.XTick at 0x2c356fe8410>,
  <matplotlib.axis.XTick at 0x2c356fe8b90>,
  <matplotlib.axis.XTick at 0x2c356fe9310>,
  <matplotlib.axis.XTick at 0x2c356fe9a90>],
 [Text(0, 0, '2015'),
  Text(1, 0, '2016'),
  Text(2, 0, '2017'),
  Text(3, 0, '2018'),
  Text(4, 0, '2019'),
  Text(5, 0, '2020'),
  Text(6, 0, '2021'),
  Text(7, 0, '2022'),
  Text(8, 0, '2023'),
  Text(9, 0, '2024')])
```



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