

```

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, 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 [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]: Games

```
Out[5]: array([[80, 77, 82, 82, 73, 82, 58, 78,  6, 35],
               [82, 57, 82, 79, 76, 72, 60, 72, 79, 80],
               [79, 78, 75, 81, 76, 79, 62, 76, 77, 69],
               [80, 65, 77, 66, 69, 77, 55, 67, 77, 40],
               [82, 82, 82, 79, 82, 78, 54, 76, 71, 41],
               [70, 69, 67, 77, 70, 77, 57, 74, 79, 44],
               [78, 64, 80, 78, 45, 80, 60, 70, 62, 82],
               [35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
               [40, 40, 40, 81, 78, 81, 39,  0, 10, 51],
               [75, 51, 51, 79, 77, 76, 49, 69, 54, 62]])
```

```
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]: Games[0,6]
```

```
Out[8]: 58
```

```
In [9]: print(Games[0,6])
```

```
58
```

```
In [10]: Salary
```

```
Out[10]: 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 [11]: Games
```

```
Out[11]: 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 [12]: Salary / Games
```

C:\Users\DELL\AppData\Local\Temp\ipykernel_45256\1572766764.py:1: RuntimeWarning: divide by zero encountered in divide

Salary / Games

```
Out[12]: array([[ 199335.9375      ,  230113.63636364,  237690.54878049,
  259298.7804878 ,  315539.38356164,  302515.24390244,
  435249.87931034,  357040.37179487,  5075634.16666667,
  671428.57142857],
 [ 146341.46341463,  223582.26315789,  164492.40243902,
  180159.07594937,  197062.55263158,  226729.16666667,
  300642.88333333,  274342.29166667,  271730.60759494,
  289759.875      ],
 [  58503.79746835,   74719.1025641 ,  173883.33333333,
  177908.40740741,  207630.42105263,  183544.30379747,
  258427.41935484,  230855.26315789,  247629.87012987,
  299194.20289855],
 [  46420.5      ,   72216.01538462,  169366.88311688,
  218342.13636364,  228694.37681159,  222717.44155844,
  336701.34545455,  290298.50746269,  291006.15584416,
  561450.      ],
 [  54794.63414634,   58618.53658537,   73917.97560976,
  174151.89873418,  185397.43902439,  213425.38461538,
  335032.77777778,  257057.36842105,  288918.      ,
  522835.87804878],
 [  47828.57142857,   61380.      ,  185895.52238806,
  187150.4025974 ,  225427.31428571,  188311.68831169,
  281096.49122807,  237094.59459459,  241360.75949367,
  469190.90909091],
 [  40310.76923077,   52815.      ,   45199.5      ,
   58643.44871795,  300455.55555556,  186751.9125      ,
  272663.41666667,  253992.25714286,  301103.72580645,
  244738.57317073],
 [    0.      ,    0.      ,   52140.      ,
   60595.13513514,   58498.53658537,   77611.06410256,
  234948.96969697,  205797.90123457,  220155.88888889,
  703541.62962963],
 [    0.      ,    0.      ,    0.      ,
   59540.74074074,   66467.69230769,   68471.11111111,
  179325.84615385,      inf, 1763268.8      ,
  369860.29411765],
 [  40425.6      ,   75322.41176471,  255710.78431373,
  182412.41772152,  204933.92207792,  186842.10526316,
  320224.48979592,  249014.49275362,  345796.2962963 ,
  241935.48387097]])
```

```
In [20]: np.round(Salary//Games)
```

```
Out[20]: 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]])
```

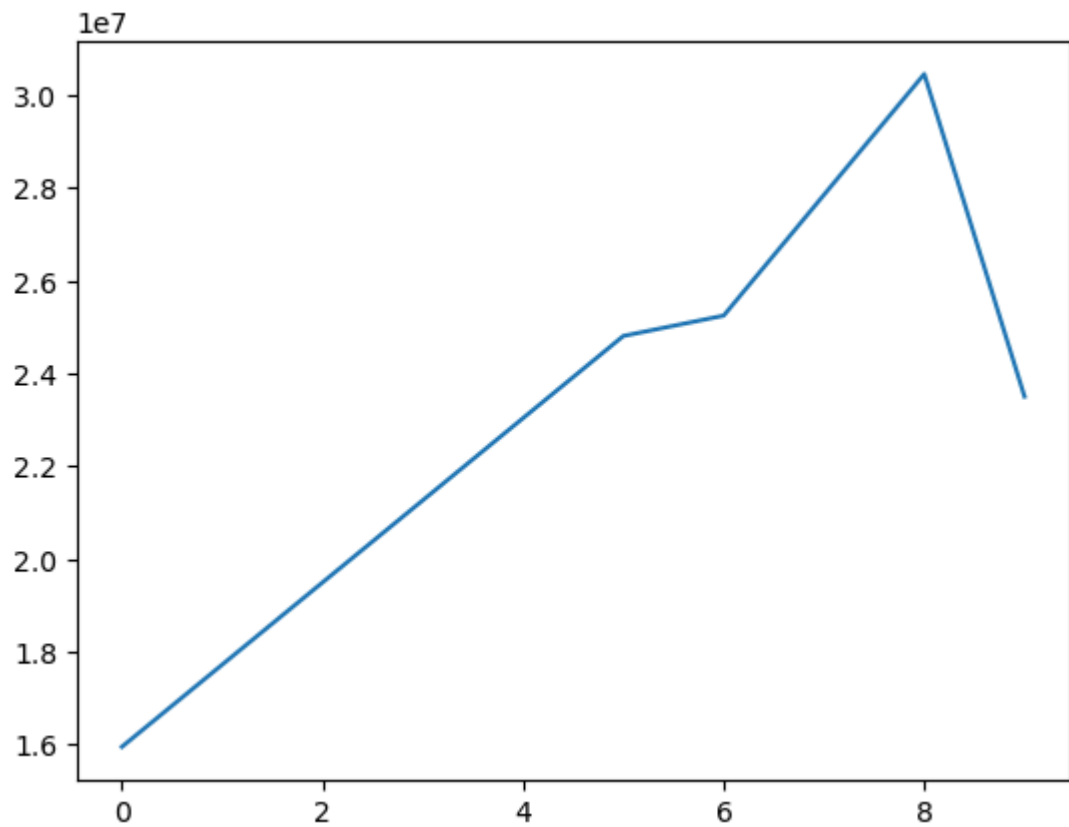
```
In [21]: import warnings
         warnings.filterwarnings('ignore')
```

```
In [22]: import matplotlib.pyplot as plt
         import numpy as np
```

```
In [23]: Salary[0]
```

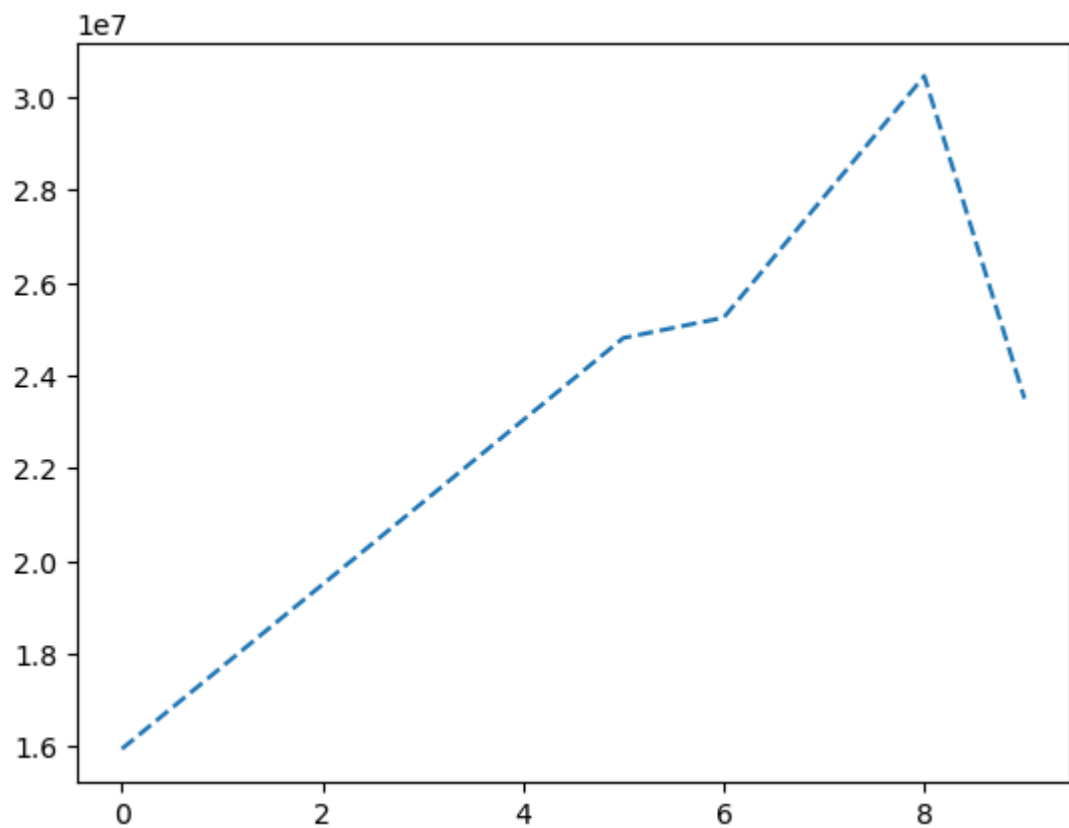
```
Out[23]: array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
                25244493, 27849149, 30453805, 23500000])
```

```
In [24]: plt.plot(Salary[0])
         plt.show()
```



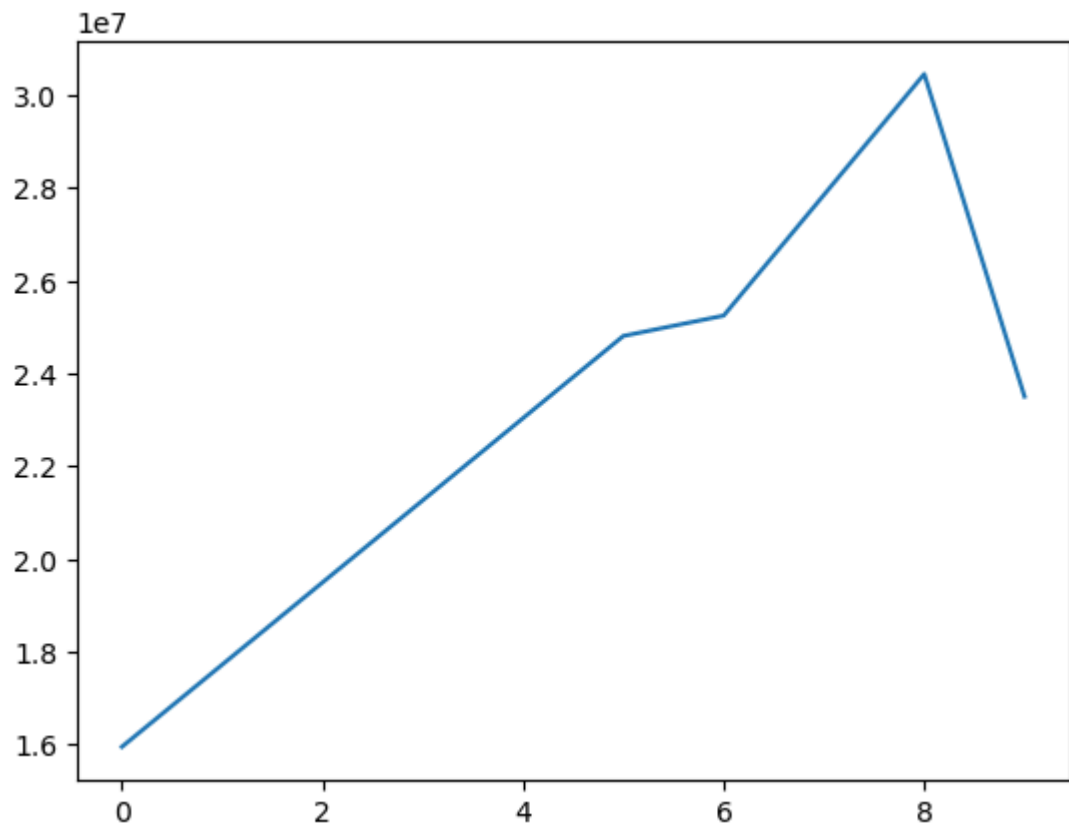
```
In [25]: plt.plot(Salary[0], ls='--')
```

```
Out[25]: [<matplotlib.lines.Line2D at 0x1ba47260a70>]
```



```
In [26]: plt.plot(Salary[0], ls='--')
```

```
Out[26]: [<matplotlib.lines.Line2D at 0x1ba49e134d0>]
```



```
In [27]: plt.plot(Salary[0],ls='*')
```

```

-----
ValueError                                Traceback (most recent call last)
Cell In[27], line 1
----> 1 plt.plot(Salary[0],ls='*')

File ~\anaconda3\Lib\site-packages\matplotlib\pyplot.py:3794, in plot(scalex, scaley, data, *args, **kwargs)
    3786 @_copy_docstring_and_deprecators(Axes.plot)
    3787 def plot(
    3788     *args: float | ArrayLike | str,
    (...)
    3792     **kwargs,
    3793 ) -> list[Line2D]:
-> 3794     return gca().plot(
    3795         *args,
    3796         scalex=scalex,
    3797         scaley=scaley,
    3798         **({"data": data} if data is not None else {}),
    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_var_args.__call__(self, axes, data, *args, **kwargs)
    294     this += args[0],
    295     args = args[1:]
--> 296 yield from self._plot_args(
    297     axes, this, kwargs, ambiguous_fmt_datakey=ambiguous_fmt_datakey)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:534, in _process_plot_var_args._plot_args(self, axes, tup, kwargs, return_kwargs, ambiguous_fmt_datakey)
    532     return list(result)
    533 else:
--> 534     return [l[0] for l in result]

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:527, in <genexpr>(.0)
    522 else:
    523     raise ValueError(
    524         f"label must be scalar or have the same length as the input "
    525         f"data, but found {len(label)} for {n_datasets} datasets.")
--> 527 result = (make_artist(axes, x[:, j % ncx], y[:, j % ncy], kw,
    528                     **kwargs, 'label': label))
    529     for j, label in enumerate(labels))
    531 if return_kwargs:
    532     return list(result)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:335, in _process_plot

```



```

_var_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, markeredgewidth, markeredgewidth, markerfacecolor, markerfacecoloralt, fillstyle, antialiased, dash_capstyle, solid_capstyle, dash_joinstyle, solid_joinstyle, 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 ~\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]

```

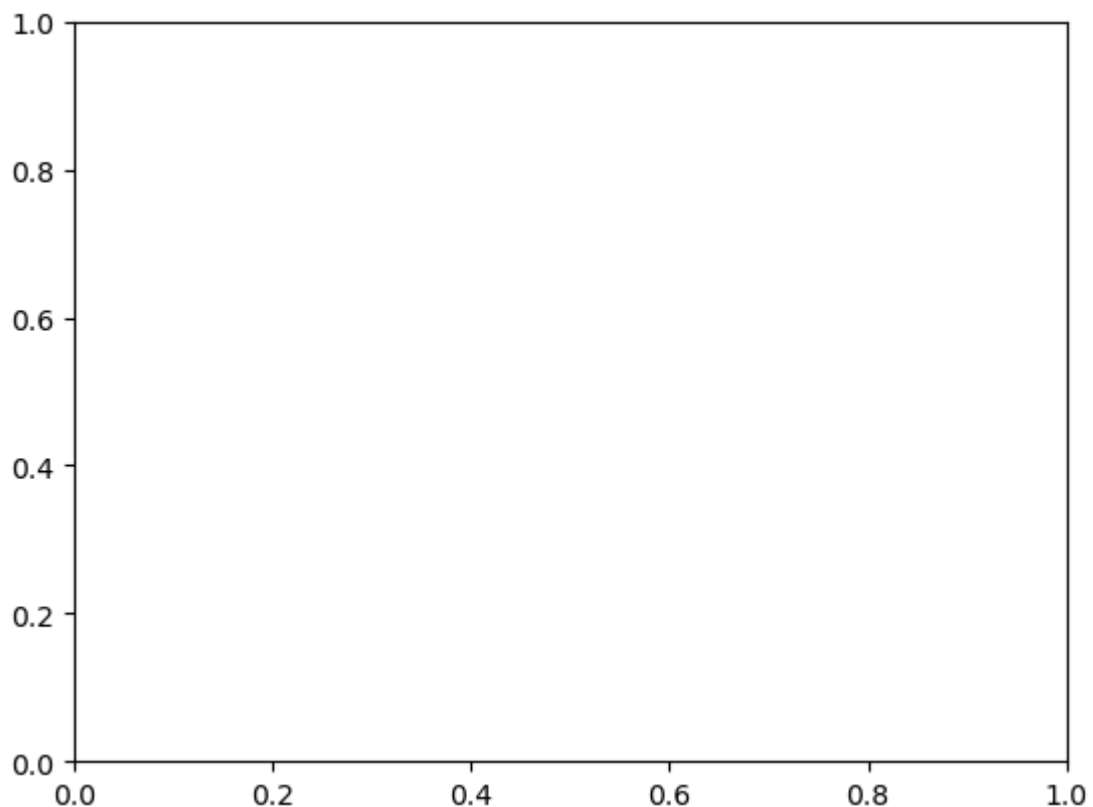
File ~\anaconda3\Lib\site-packages\matplotlib_api__init__.py:129, in check_in_list(values, _print_supported_values, **kwargs)

```

    127 if _print_supported_values:
    128     msg += f"; supported values are {' '.join(map(repr, values))}"
--> 129 raise ValueError(msg)

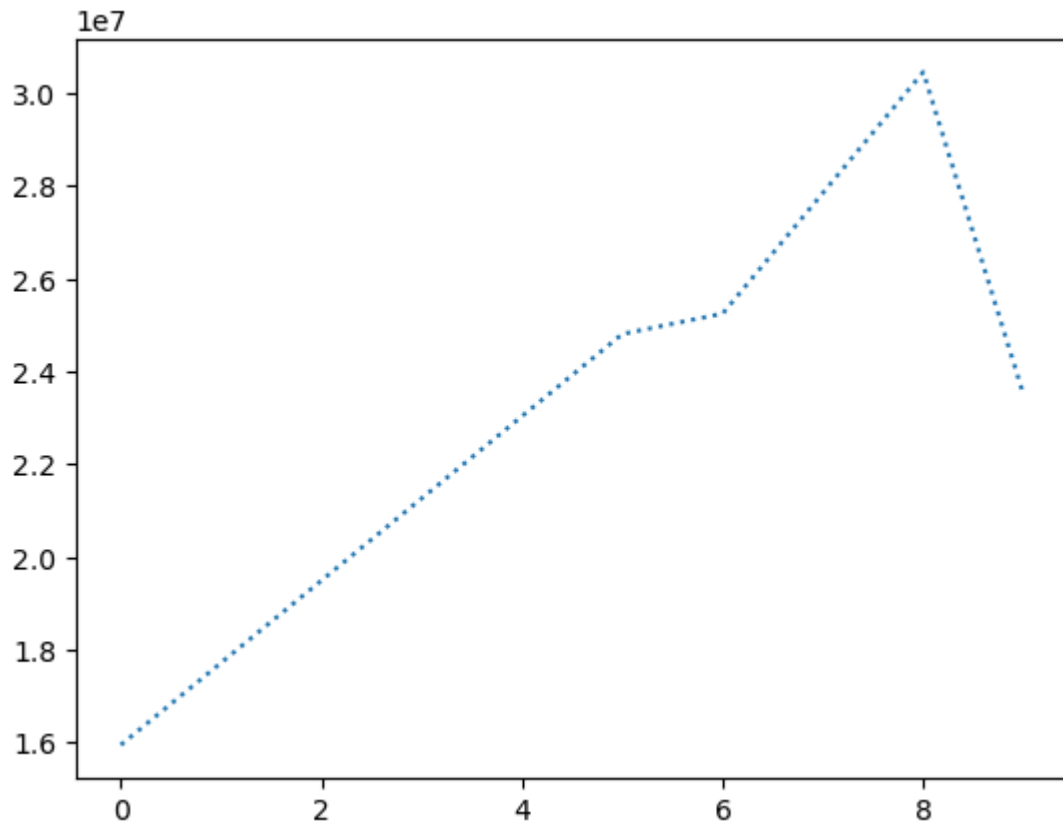
```

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



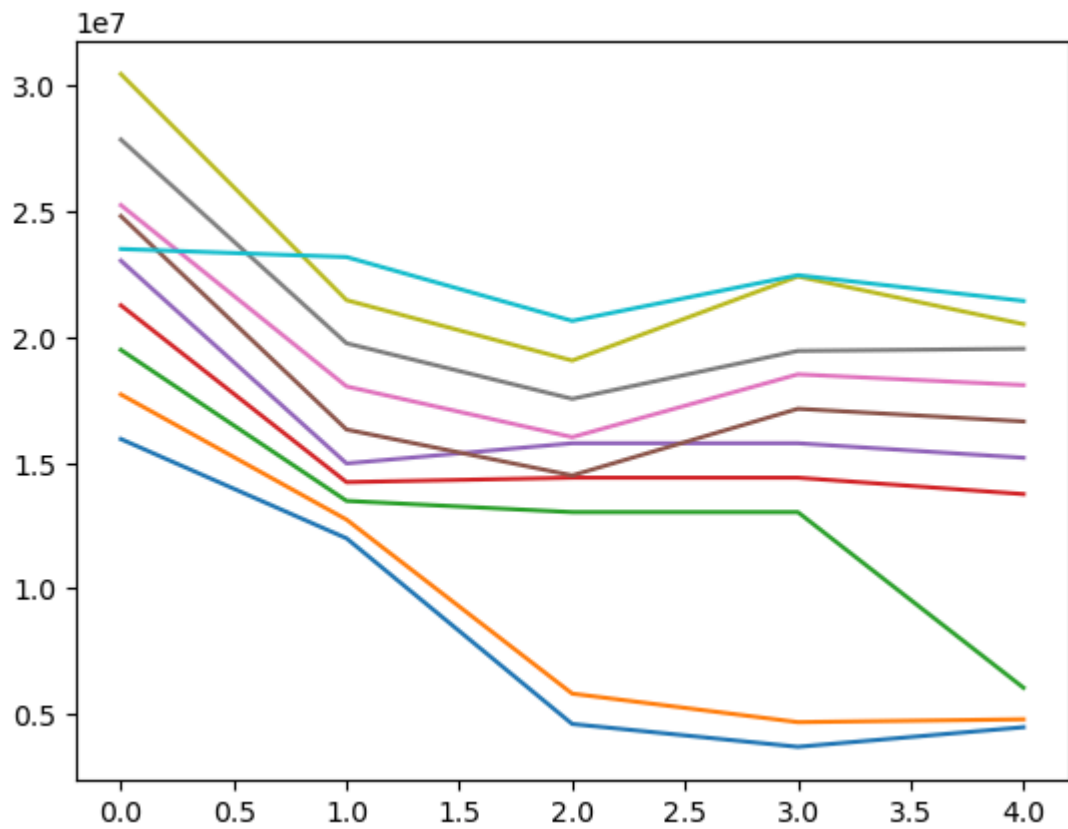
```
In [28]: plt.plot(Salary[0],ls=':')
```

Out[28]: [<matplotlib.lines.Line2D at 0x1ba49e669c0>]



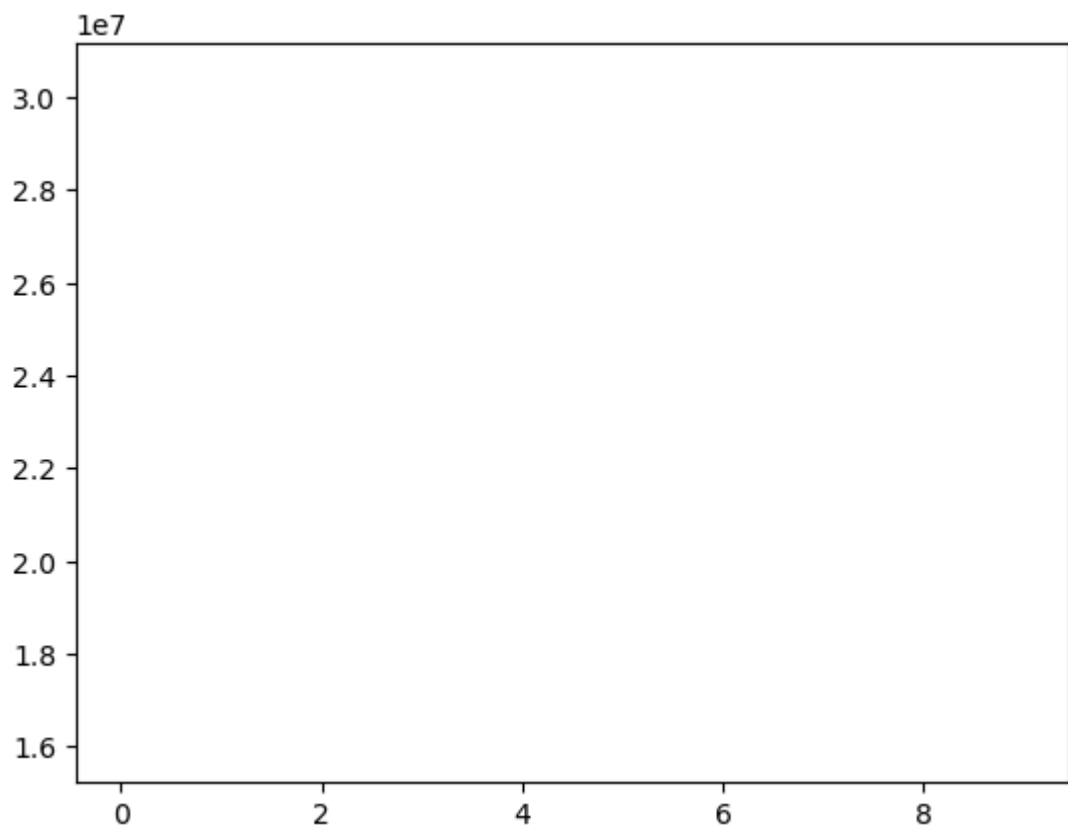
In [29]: `plt.plot(Salary[0:5],ls='-')`

Out[29]: [<matplotlib.lines.Line2D at 0x1ba4f2ec650>,
<matplotlib.lines.Line2D at 0x1ba4f2ec6e0>,
<matplotlib.lines.Line2D at 0x1ba4f2ec7d0>,
<matplotlib.lines.Line2D at 0x1ba4f2ec890>,
<matplotlib.lines.Line2D at 0x1ba4f2ec980>,
<matplotlib.lines.Line2D at 0x1ba4f2eca70>,
<matplotlib.lines.Line2D at 0x1ba4f2ecb60>,
<matplotlib.lines.Line2D at 0x1ba4f2ecc50>,
<matplotlib.lines.Line2D at 0x1ba4f2ecd40>,
<matplotlib.lines.Line2D at 0x1ba4f2ece30>]



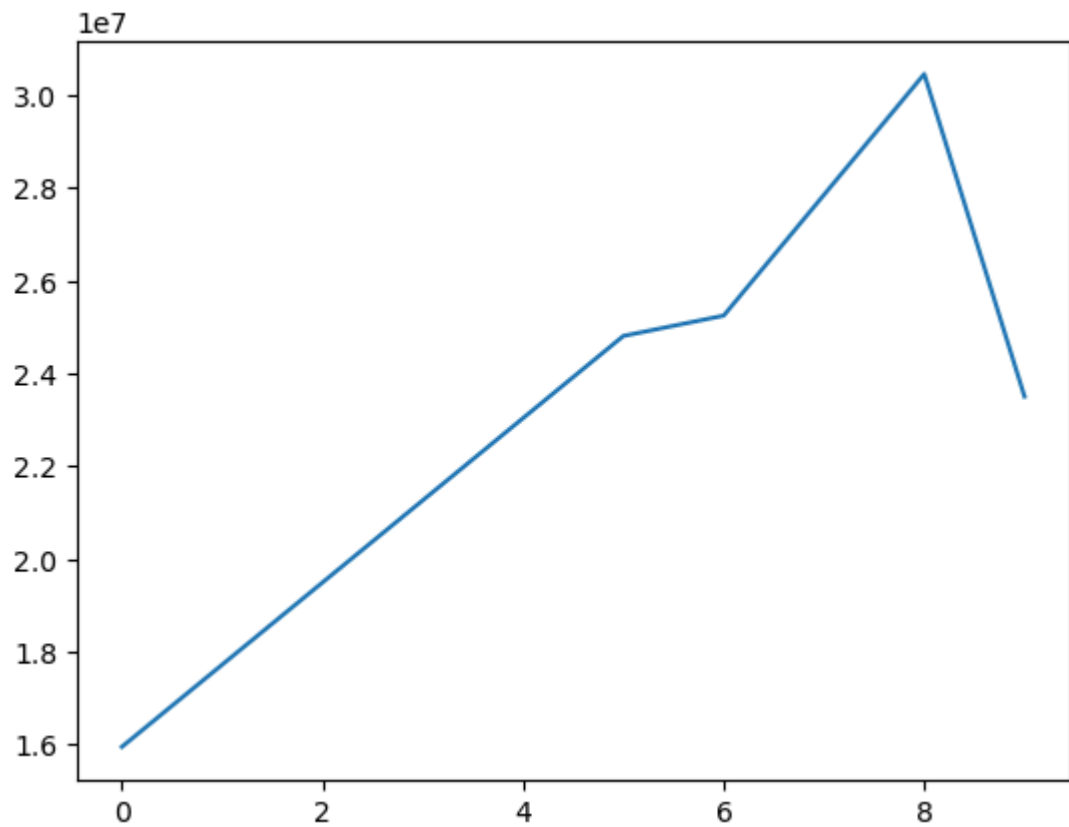
```
In [30]: plt.plot(Salary[0],ls=' ')
```

```
Out[30]: [<matplotlib.lines.Line2D at 0x1ba4f4838f0>]
```



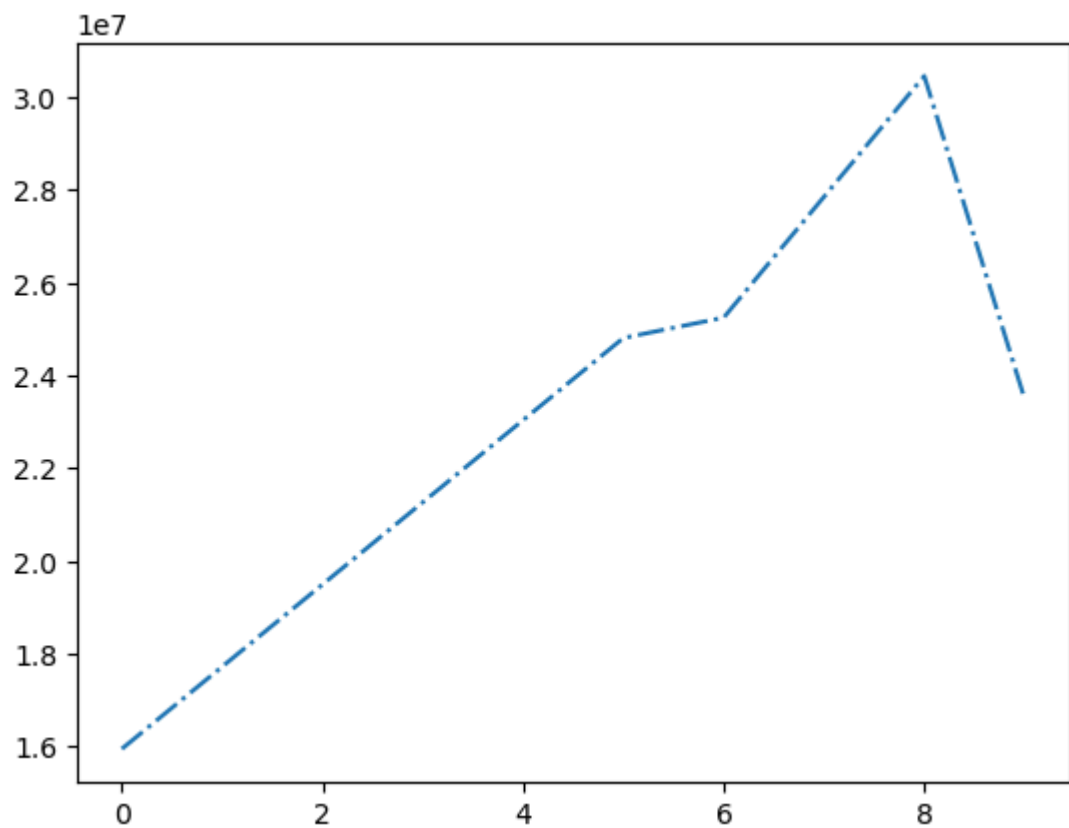
```
In [31]: plt.plot(Salary[0],ls='solid')
```

```
Out[31]: [<matplotlib.lines.Line2D at 0x1ba4f5092e0>]
```



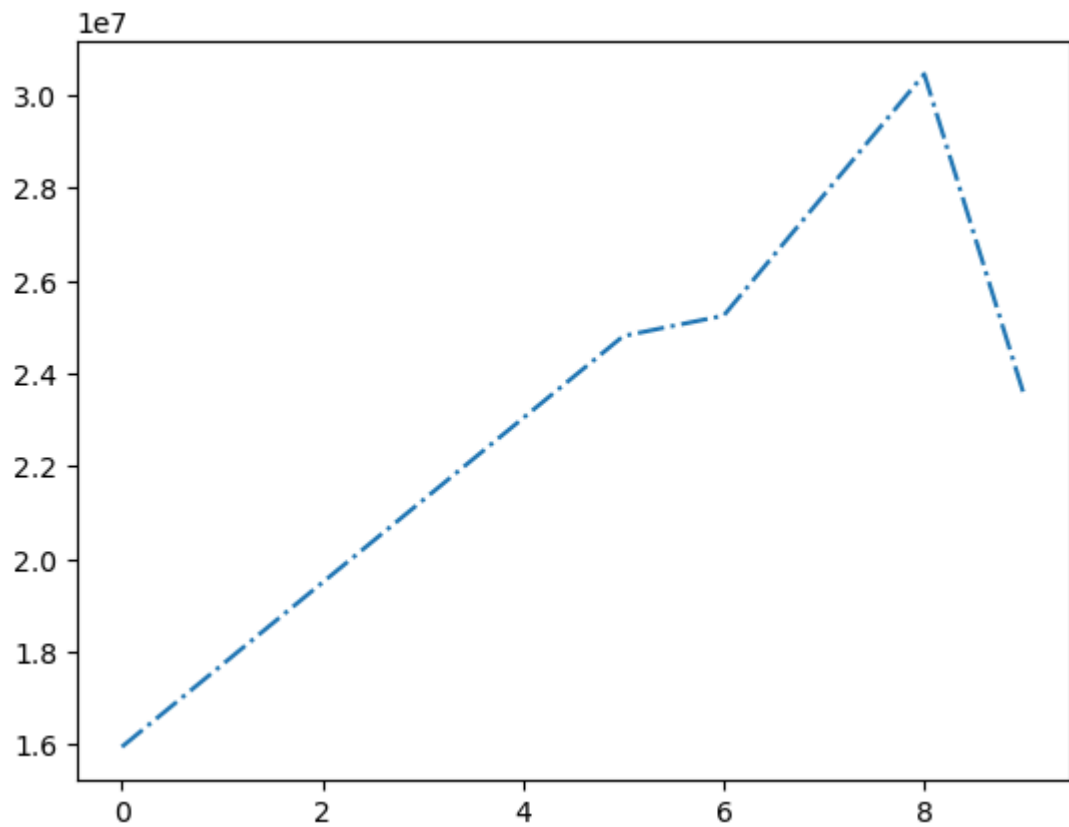
```
In [32]: plt.plot(Salary[0],ls='-.')
```

```
Out[32]: [<matplotlib.lines.Line2D at 0x1ba4f32dac0>]
```



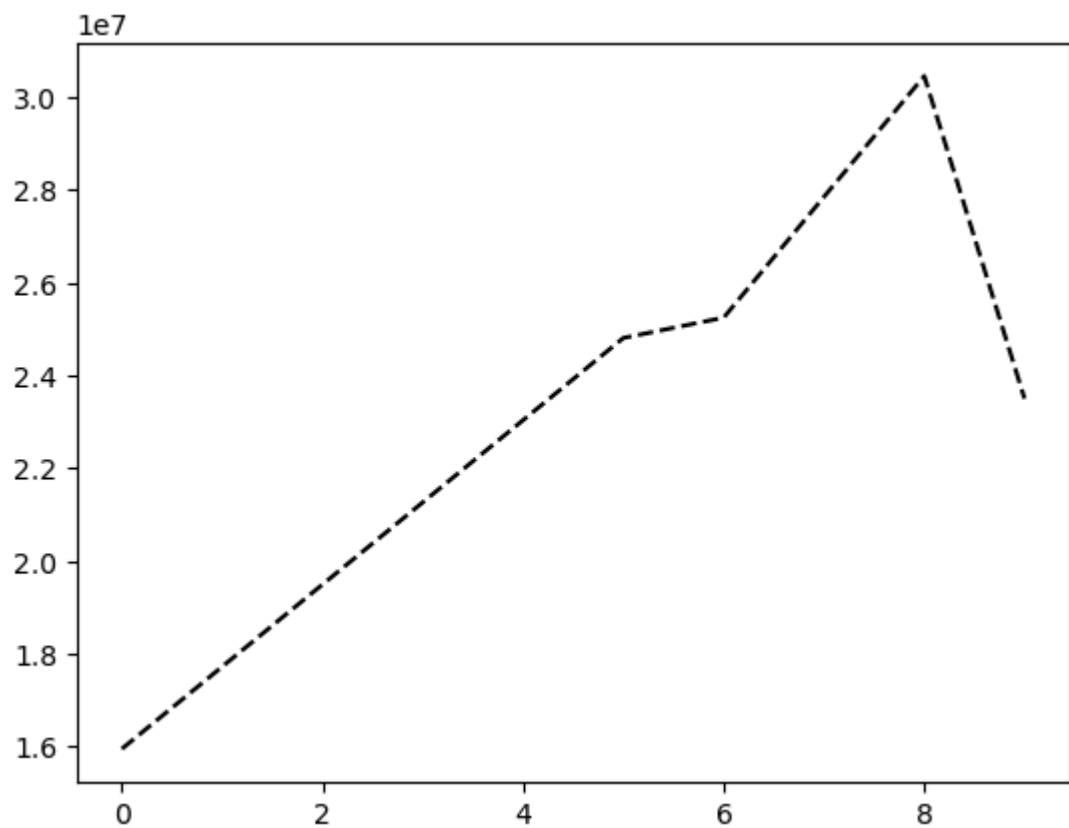
```
In [34]: plt.plot(Salary[0],ls='dashdot')
```

```
Out[34]: [<matplotlib.lines.Line2D at 0x1ba4f5b6de0>]
```



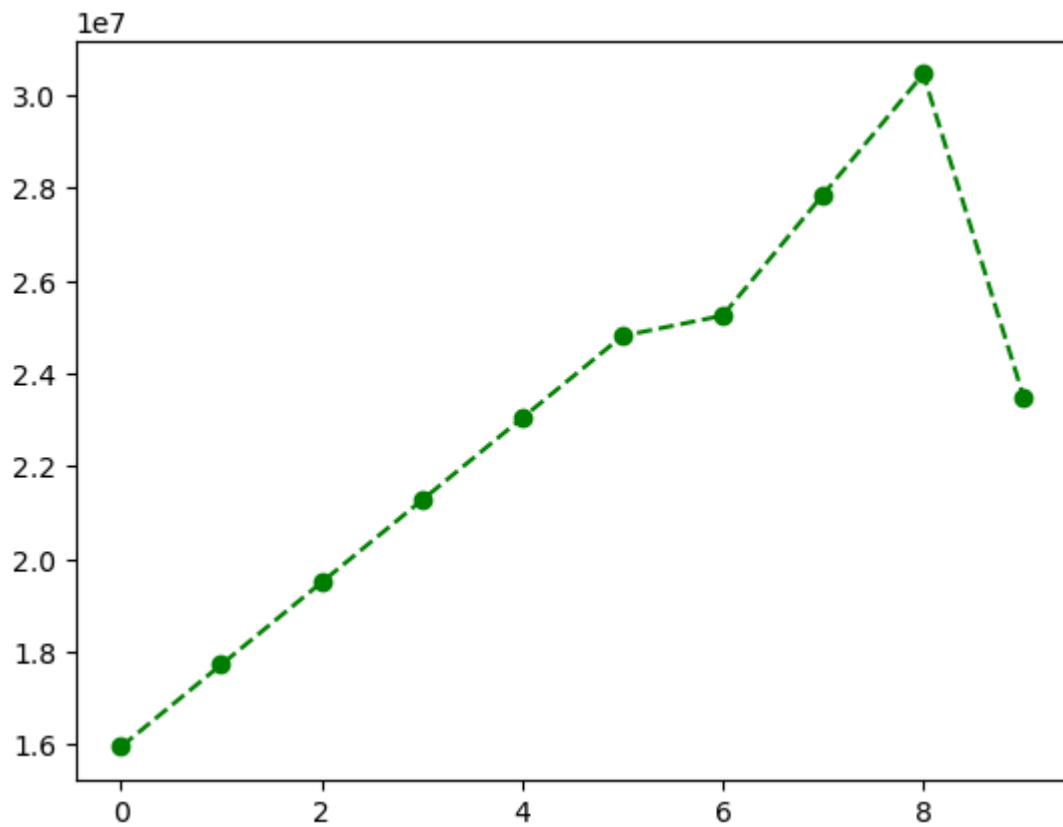
```
In [35]: plt.plot(Salary[0],ls='--',color='black')
```

```
Out[35]: [<matplotlib.lines.Line2D at 0x1ba4f634350>]
```



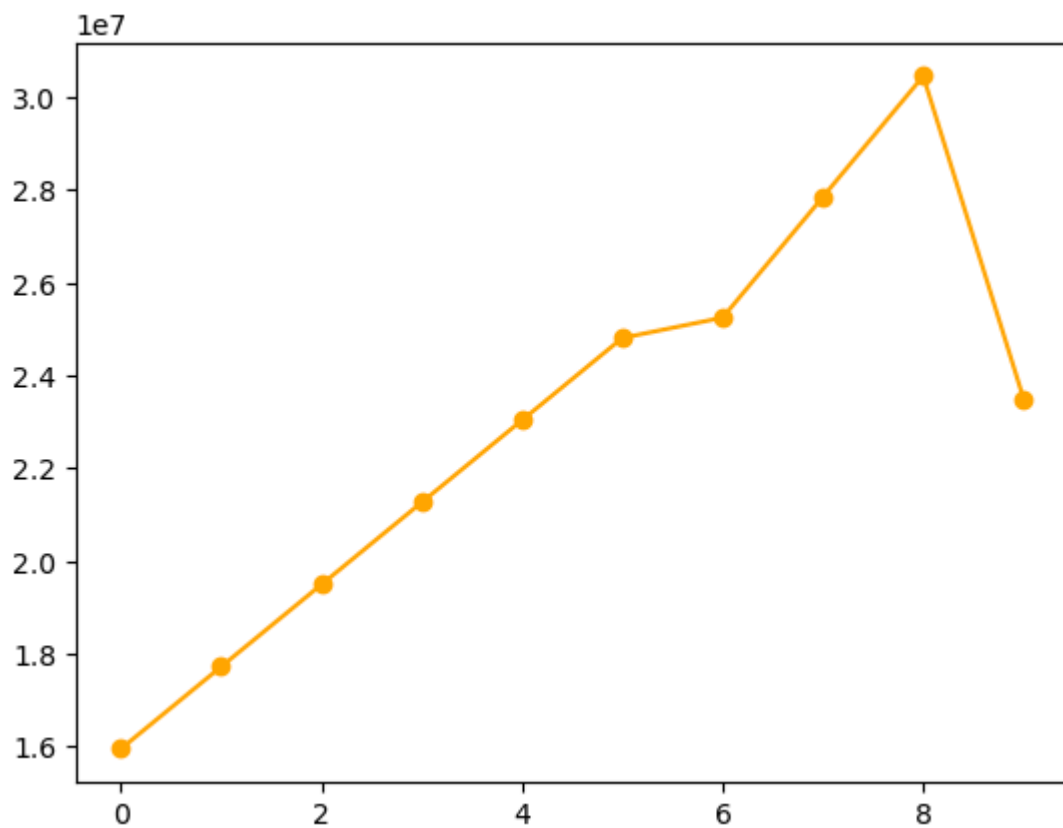
```
In [37]: plt.plot(Salary[0],ls='--',color='green',marker='o')
```

```
Out[37]: [<matplotlib.lines.Line2D at 0x1ba50f80a70>]
```



```
In [38]: plt.plot(Salary[0],ls='--',color='orange',marker='o')
```

```
Out[38]: [<matplotlib.lines.Line2D at 0x1ba5100d820>]
```



```
In [43]: plt.plot(Salary[0],ls='--',color='gradientblue',marker='o')
```

```

-----
ValueError                                Traceback (most recent call last)
Cell In[43], line 1
----> 1 plt.plot(Salary[0],ls='-',color='gradientblue ',marker='o')

File ~\anaconda3\Lib\site-packages\matplotlib\pyplot.py:3794, in plot(scalex, scaley, data, *args, **kwargs)
    3786 @_copy_docstring_and_deprecators(Axes.plot)
    3787 def plot(
    3788     *args: float | ArrayLike | str,
    (... )
    3792     **kwargs,
    3793 ) -> list[Line2D]:
-> 3794     return gca().plot(
    3795         *args,
    3796         scalex=scalex,
    3797         scaley=scaley,
    3798         **({"data": data} if data is not None else {}),
    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_var_args.__call__(self, axes, data, *args, **kwargs)
    294     this += args[0],
    295     args = args[1:]
--> 296 yield from self._plot_args(
    297     axes, this, kwargs, ambiguous_fmt_datakey=ambiguous_fmt_datakey)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:534, in _process_plot_var_args._plot_args(self, axes, tup, kwargs, return_kwargs, ambiguous_fmt_datakey)
    532     return list(result)
    533 else:
--> 534     return [l[0] for l in result]

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:527, in <genexpr>(.0)
    522 else:
    523     raise ValueError(
    524         f"label must be scalar or have the same length as the input "
    525         f"data, but found {len(label)} for {n_datasets} datasets.")
--> 527 result = (make_artist(axes, x[:, j % ncx], y[:, j % ncy], kw,
    528                     **kwargs, 'label': label))
    529     for j, label in enumerate(labels))
    531 if return_kwargs:
    532     return list(result)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:335, in _process_plot

```

```

_var_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:376, in Line2D.__init__(self, xdata, ydata, linewidth, linestyle, color, gapcolor, marker, markersize, markeredgewidth, markeredgewidth, markerfacecolor, markerfacecoloralt, fillstyle, antialiased, dash_capstyle, solid_capstyle, dash_joinstyle, solid_joinstyle, pickradius, drawstyle, markevery, **kwargs)

```

    373 self.set_drawstyle(drawstyle)
    375 self._color = None
--> 376 self.set_color(color)
    377 if marker is None:
    378     marker = 'none' # Default.

```

File ~\anaconda3\Lib\site-packages\matplotlib\lines.py:1066, in Line2D.set_color(self, color)

```

    1058 def set_color(self, color):
    1059     """
    1060     Set the color of the line.
    1061     (...)
    1064     color : :mpltype:`color`
    1065     """
-> 1066     mcolors._check_color_like(color=color)
    1067     self._color = color
    1068     self.stale = True

```

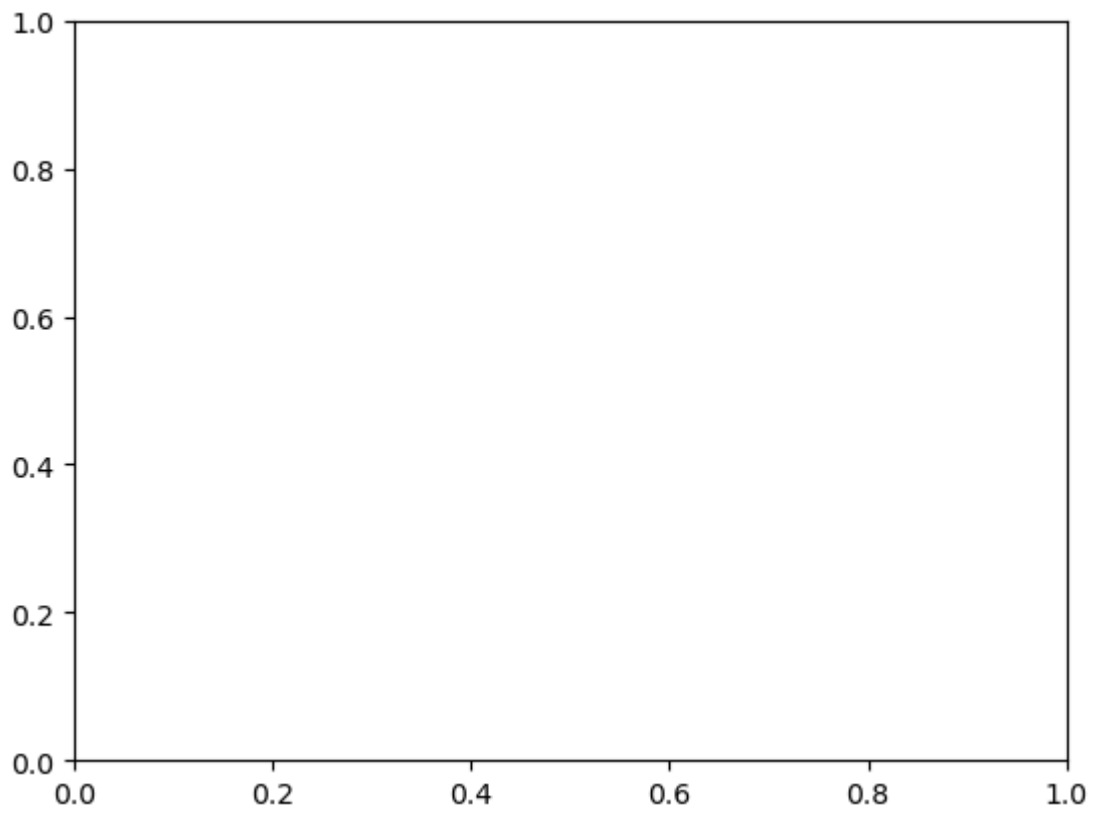
File ~\anaconda3\Lib\site-packages\matplotlib\colors.py:246, in _check_color_like(**kwargs)

```

    244 for k, v in kwargs.items():
    245     if not is_color_like(v):
--> 246         raise ValueError(
    247             f"{v!r} is not a valid value for {k}: supported inputs are "
    248             f"(r, g, b) and (r, g, b, a) 0-1 float tuples; "
    249             f"#rrggbb, #rrggbbaa, #rgb, #rgba strings; "
    250             f"named color strings; "
    251             f"string reprs of 0-1 floats for grayscale values; "
    252             f"C0, C1, ... strings for colors of the color cycle; "
    253             f"and pairs combining one of the above with an alpha value")

```

ValueError: 'gradientblue ' is not a valid value for color: supported inputs are (r, g, b) and (r, g, b, a) 0-1 float tuples; #rrggbb, #rrggbbaa, #rgb, #rgba strings; named color strings; string reprs of 0-1 floats for grayscale values; 'C0', 'C1', ... strings for colors of the color cycle; and pairs combining one of the above with an alpha value



```
In [44]: plt.plot(Salary[0],ls='-',color=' ',marker='o')
```

```

-----
ValueError                                Traceback (most recent call last)
Cell In[44], line 1
----> 1 plt.plot(Salary[0],ls='-',color=' ',marker='o')

File ~\anaconda3\Lib\site-packages\matplotlib\pyplot.py:3794, in plot(scalex, scaley, data, *args, **kwargs)
    3786 @_copy_docstring_and_deprecators(Axes.plot)
    3787 def plot(
    3788     *args: float | ArrayLike | str,
    (...)
    3792     **kwargs,
    3793 ) -> list[Line2D]:
-> 3794     return gca().plot(
    3795         *args,
    3796         scalex=scalex,
    3797         scaley=scaley,
    3798         **({"data": data} if data is not None else {}),
    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_var_args.__call__(self, axes, data, *args, **kwargs)
    294     this += args[0],
    295     args = args[1:]
--> 296 yield from self._plot_args(
    297     axes, this, kwargs, ambiguous_fmt_datakey=ambiguous_fmt_datakey)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:534, in _process_plot_var_args._plot_args(self, axes, tup, kwargs, return_kwargs, ambiguous_fmt_datakey)
    532     return list(result)
    533 else:
--> 534     return [l[0] for l in result]

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:527, in <genexpr>(.0)
    522 else:
    523     raise ValueError(
    524         f"label must be scalar or have the same length as the input "
    525         f"data, but found {len(label)} for {n_datasets} datasets.")
--> 527 result = (make_artist(axes, x[:, j % ncx], y[:, j % ncy], kw,
    528                     **kwargs, 'label': label))
    529     for j, label in enumerate(labels))
    531 if return_kwargs:
    532     return list(result)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:335, in _process_plot

```

```

_var_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:376, in Line2D.__init__(self, xdata, ydata, linewidth, linestyle, color, gapcolor, marker, markersize, markeredgewidth, markeredgewidth, markerfacecolor, markerfacecoloralt, fillstyle, antialiased, dash_capstyle, solid_capstyle, dash_joinstyle, solid_joinstyle, pickradius, drawstyle, markevery, **kwargs)
    373 self.set_drawstyle(drawstyle)
    375 self._color = None
--> 376 self.set_color(color)
    377 if marker is None:
    378     marker = 'none' # Default.

```

```

File ~\anaconda3\Lib\site-packages\matplotlib\lines.py:1066, in Line2D.set_color(self, color)
    1058 def set_color(self, color):
    1059     """
    1060     Set the color of the line.
    1061     (...)
    1064     color : :mpltype:`color`
    1065     """
-> 1066     mcolors._check_color_like(color=color)
    1067     self._color = color
    1068     self.stale = True

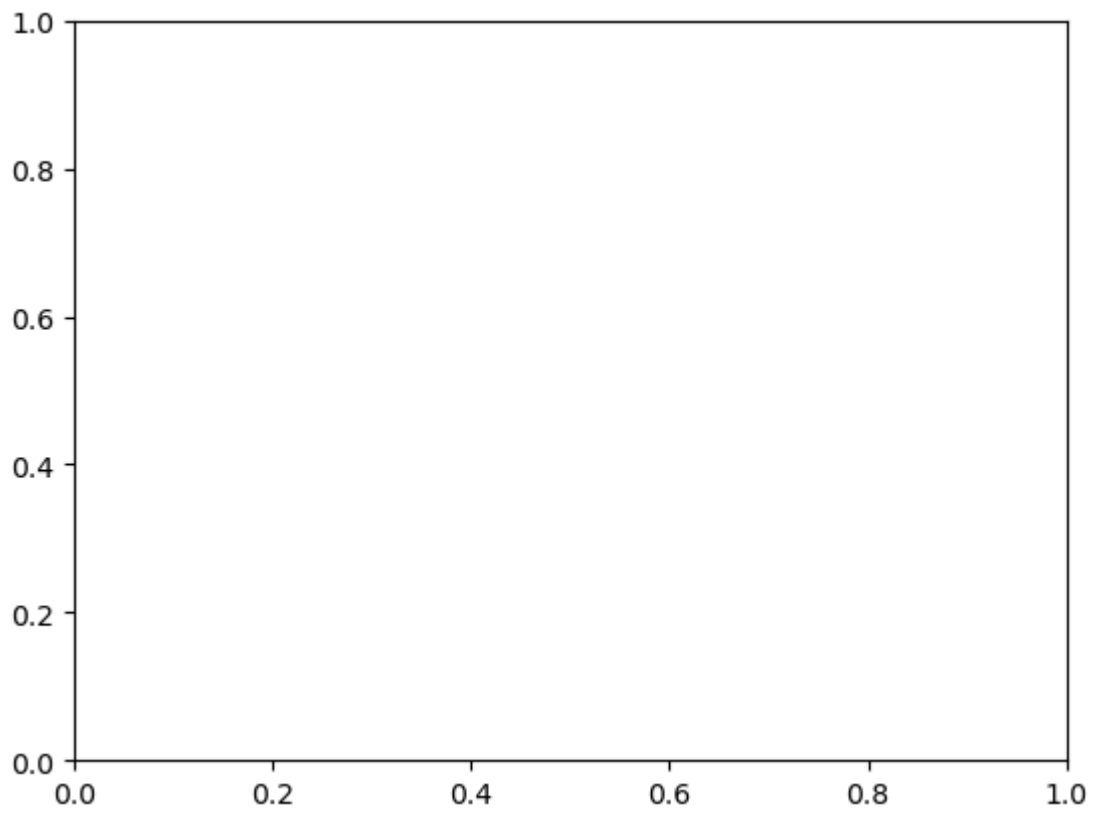
```

```

File ~\anaconda3\Lib\site-packages\matplotlib\colors.py:246, in _check_color_like(**kwargs)
    244 for k, v in kwargs.items():
    245     if not is_color_like(v):
--> 246         raise ValueError(
    247             f"{v!r} is not a valid value for {k}: supported inputs are "
    248             f"(r, g, b) and (r, g, b, a) 0-1 float tuples; "
    249             f"'#rrggbb', '#rrggbbaa', '#rgb', '#rgba' strings; "
    250             f"named color strings; "
    251             f"string reprs of 0-1 floats for grayscale values; "
    252             f"'C0', 'C1', ... strings for colors of the color cycle; "
    253             f"and pairs combining one of the above with an alpha value")

```

ValueError: ' ' is not a valid value for color: supported inputs are (r, g, b) and (r, g, b, a) 0-1 float tuples; '#rrggbb', '#rrggbbaa', '#rgb', '#rgba' strings; named color strings; string reprs of 0-1 floats for grayscale values; 'C0', 'C1', ... strings for colors of the color cycle; and pairs combining one of the above with an alpha value



```
In [45]: plt.plot(Salary[0],ls='-',color='inkblue',marker='o')
```

```

-----
ValueError                                Traceback (most recent call last)
Cell In[45], line 1
----> 1 plt.plot(Salary[0],ls='-',color='inkblue',marker='o')

File ~\anaconda3\Lib\site-packages\matplotlib\pyplot.py:3794, in plot(scalex, scaley, data, *args, **kwargs)
    3786 @_copy_docstring_and_deprecators(Axes.plot)
    3787 def plot(
    3788     *args: float | ArrayLike | str,
    (... )
    3792     **kwargs,
    3793 ) -> list[Line2D]:
-> 3794     return gca().plot(
    3795         *args,
    3796         scalex=scalex,
    3797         scaley=scaley,
    3798         **({"data": data} if data is not None else {}),
    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_var_args.__call__(self, axes, data, *args, **kwargs)
    294     this += args[0],
    295     args = args[1:]
--> 296 yield from self._plot_args(
    297     axes, this, kwargs, ambiguous_fmt_datakey=ambiguous_fmt_datakey)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:534, in _process_plot_var_args._plot_args(self, axes, tup, kwargs, return_kwargs, ambiguous_fmt_datakey)
    532     return list(result)
    533 else:
--> 534     return [l[0] for l in result]

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:527, in <genexpr>(.0)
    522 else:
    523     raise ValueError(
    524         f"label must be scalar or have the same length as the input "
    525         f"data, but found {len(label)} for {n_datasets} datasets.")
--> 527 result = (make_artist(axes, x[:, j % ncx], y[:, j % ncy], kw,
    528                     **kwargs, 'label': label))
    529     for j, label in enumerate(labels))
    531 if return_kwargs:
    532     return list(result)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:335, in _process_plot

```

```

_var_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:376, in Line2D.__init__(self, xdata, ydata, linewidth, linestyle, color, gapcolor, marker, markersize, markeredgewidth, markeredgewidth, markerfacecolor, markerfacecoloralt, fillstyle, antialiased, dash_capstyle, solid_capstyle, dash_joinstyle, solid_joinstyle, pickradius, drawstyle, markevery, **kwargs)

```

    373 self.set_drawstyle(drawstyle)
    375 self._color = None
--> 376 self.set_color(color)
    377 if marker is None:
    378     marker = 'none' # Default.

```

File ~\anaconda3\Lib\site-packages\matplotlib\lines.py:1066, in Line2D.set_color(self, color)

```

    1058 def set_color(self, color):
    1059     """
    1060     Set the color of the line.
    1061     (...)
    1064     color : :mpltype:`color`
    1065     """
-> 1066     mcolors._check_color_like(color=color)
    1067     self._color = color
    1068     self.stale = True

```

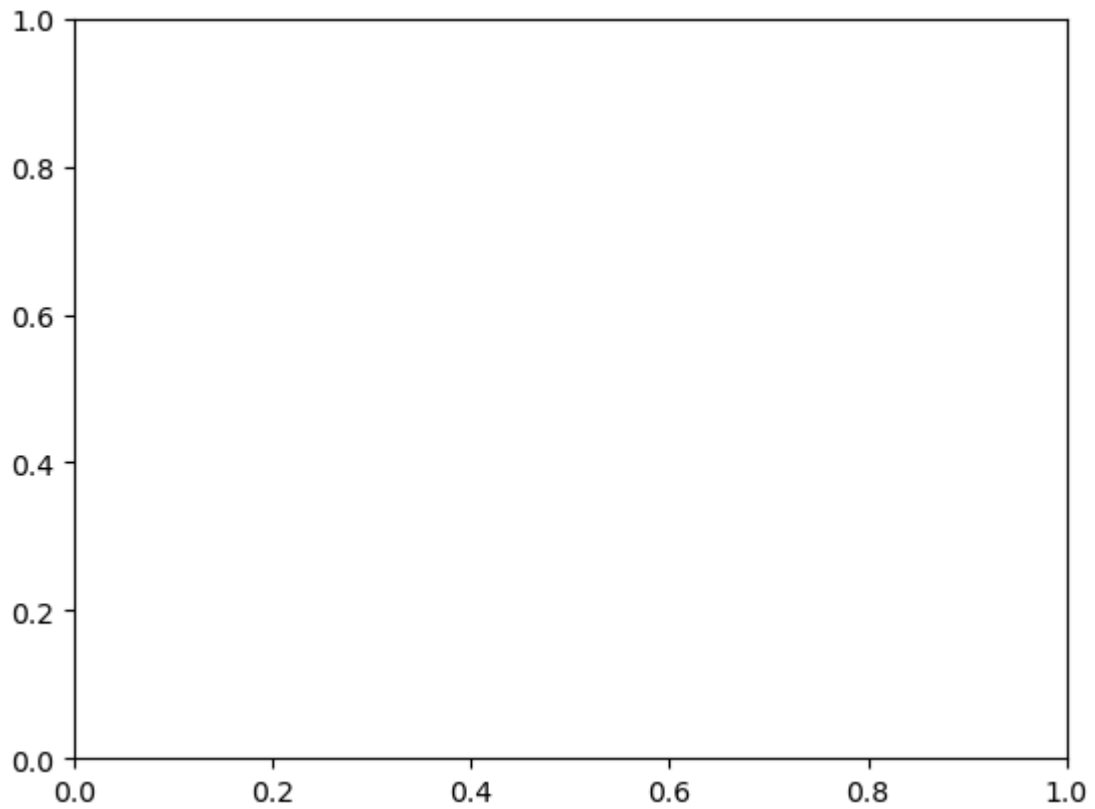
File ~\anaconda3\Lib\site-packages\matplotlib\colors.py:246, in _check_color_like(**kwargs)

```

    244 for k, v in kwargs.items():
    245     if not is_color_like(v):
--> 246         raise ValueError(
    247             f"{v!r} is not a valid value for {k}: supported inputs are "
    248             f"(r, g, b) and (r, g, b, a) 0-1 float tuples; "
    249             f"#rrggbb, #rrggbbaa, #rgb, #rgba strings; "
    250             f"named color strings; "
    251             f"string reprs of 0-1 floats for grayscale values; "
    252             f"C0, C1, ... strings for colors of the color cycle; "
    253             f"and pairs combining one of the above with an alpha value")

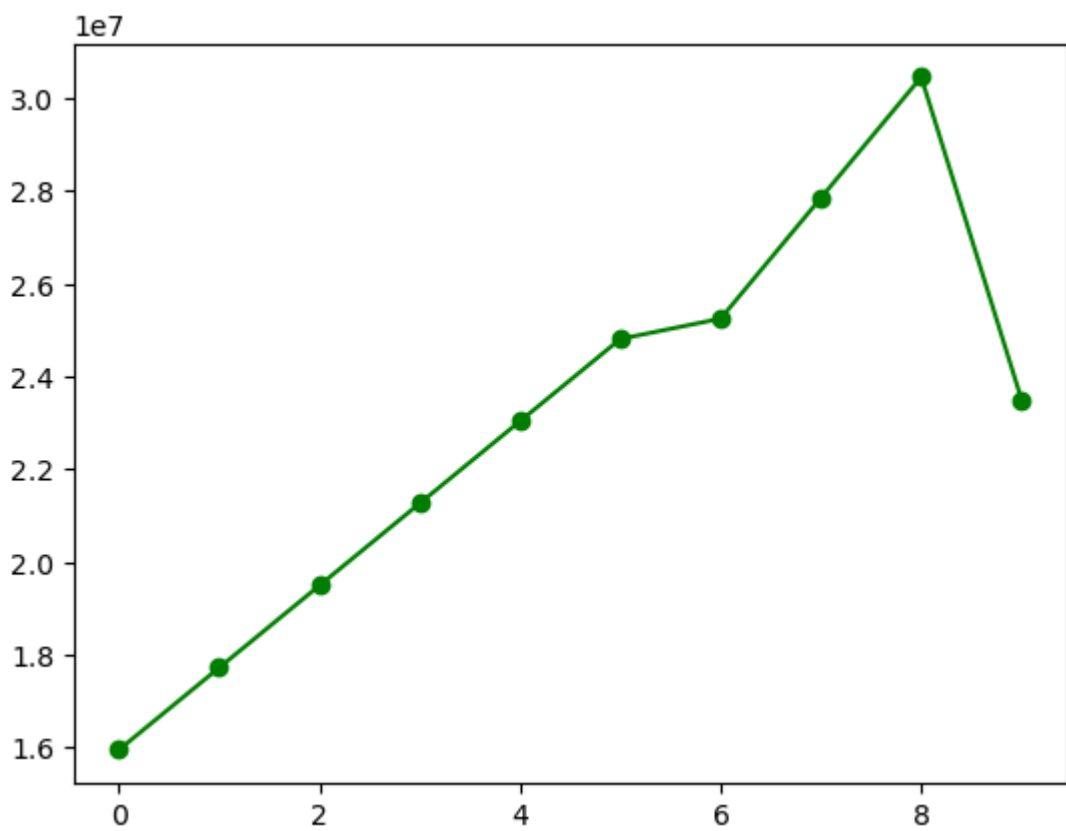
```

ValueError: 'inkblue' is not a valid value for color: supported inputs are (r, g, b) and (r, g, b, a) 0-1 float tuples; #rrggbb, #rrggbbaa, #rgb, #rgba strings; named color strings; string reprs of 0-1 floats for grayscale values; 'C0', 'C1', ... strings for colors of the color cycle; and pairs combining one of the above with an alpha value



```
In [46]: plt.plot(Salary[0],ls='-',color='green',marker='o')
```

```
Out[46]: [<matplotlib.lines.Line2D at 0x1ba51b09220>]
```



```
In [47]: plt.plot(Salary[0],ls='--',color='green',marker='square')
```

```

-----
ValueError                                Traceback (most recent call last)
File ~\anaconda3\Lib\site-packages\matplotlib\markers.py:326, in MarkerStyle._set
_marker(self, marker)
    325 try:
--> 326     Path(marker)
    327     self._marker_function = self._set_vertices

File ~\anaconda3\Lib\site-packages\matplotlib\path.py:129, in Path.__init__(self,
vertices, codes, _interpolation_steps, closed, readonly)
    101 """
    102 Create a new path with the given vertices and codes.
    103
    (...)
    127     and codes as read-only arrays.
    128 """
--> 129 vertices = _to_unmasked_float_array(vertices)
    130 _api.check_shape((None, 2), vertices=vertices)

File ~\anaconda3\Lib\site-packages\matplotlib\cbook.py:1398, in _to_unmasked_floa
t_array(x)
    1397 else:
-> 1398     return np.asarray(x, float)

ValueError: could not convert string to float: 'square'

The above exception was the direct cause of the following exception:

ValueError                                Traceback (most recent call last)
Cell In[47], line 1
----> 1 plt.plot(Salary[0],ls='--',color='green',marker='square')

File ~\anaconda3\Lib\site-packages\matplotlib\pyplot.py:3794, in plot(scalex, sca
ley, data, *args, **kwargs)
    3786 @_copy_docstring_and_deprecators(Axes.plot)
    3787 def plot(
    3788     *args: float | ArrayLike | str,
    (...)
    3792     **kwargs,
    3793 ) -> list[Line2D]:
-> 3794     return gca().plot(
    3795         *args,
    3796         scalex=scalex,
    3797         scaley=scaley,
    3798         **({"data": data} if data is not None else {}),
    3799         **kwargs,
    3800     )

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_axes.py:1779, in Axes.plot(se
lf, 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
_var_args._call__(self, axes, data, *args, **kwargs)
    294     this += args[0],
    295     args = args[1:]
--> 296 yield from self._plot_args(
    297     axes, this, kwargs, ambiguous_fmt_datakey=ambiguous_fmt_datakey)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:534, in _process_plot
_var_args._plot_args(self, axes, tup, kwargs, return_kwargs, ambiguous_fmt_datakey)
    532     return list(result)
    533 else:
--> 534     return [l[0] for l in result]

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:527, in <genexpr>(.0)
    522 else:
    523     raise ValueError(
    524         f"label must be scalar or have the same length as the input "
    525         f"data, but found {len(label)} for {n_datasets} datasets.")
--> 527 result = (make_artist(axes, x[:, j % ncx], y[:, j % ncy], kw,
    528                     **kwargs, 'label': label))
    529     for j, label in enumerate(labels))
    531 if return_kwargs:
    532     return list(result)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:335, in _process_plot
_var_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

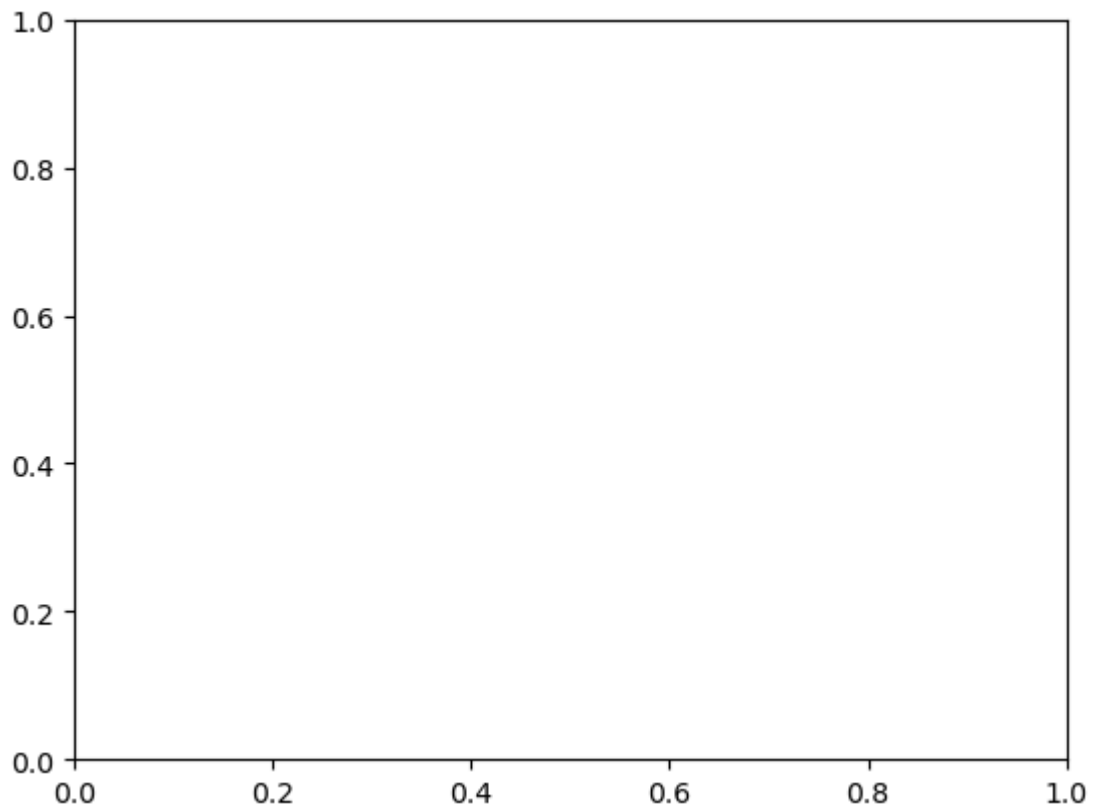
File ~\anaconda3\Lib\site-packages\matplotlib\lines.py:380, in Line2D.__init__(self, xdata, ydata, linewidth, linestyle, color, gapcolor, marker, markersize, markeredgewidth, markeredgewidth, markerfacecolor, markerfacecoloralt, fillstyle, antialiased, dash_capstyle, solid_capstyle, dash_joinstyle, solid_joinstyle, pickradius, drawstyle, markevery, **kwargs)
    378     marker = 'none' # Default.
    379 if not isinstance(marker, MarkerStyle):
--> 380     self._marker = MarkerStyle(marker, fillstyle)
    381 else:
    382     self._marker = marker

File ~\anaconda3\Lib\site-packages\matplotlib\markers.py:248, in MarkerStyle.__init__(self, marker, fillstyle, transform, capstyle, joinstyle)
    246 self._user_joinstyle = JoinStyle(joinstyle) if joinstyle is not None else None
    247 self._set_fillstyle(fillstyle)
--> 248 self._set_marker(marker)

File ~\anaconda3\Lib\site-packages\matplotlib\markers.py:329, in MarkerStyle._set
_marker(self, marker)
    327     self._marker_function = self._set_vertices
    328 except ValueError as err:
--> 329     raise ValueError(
    330         f'Unrecognized marker style {marker!r}') from err
    332 if not isinstance(marker, MarkerStyle):
    333     self._marker = marker

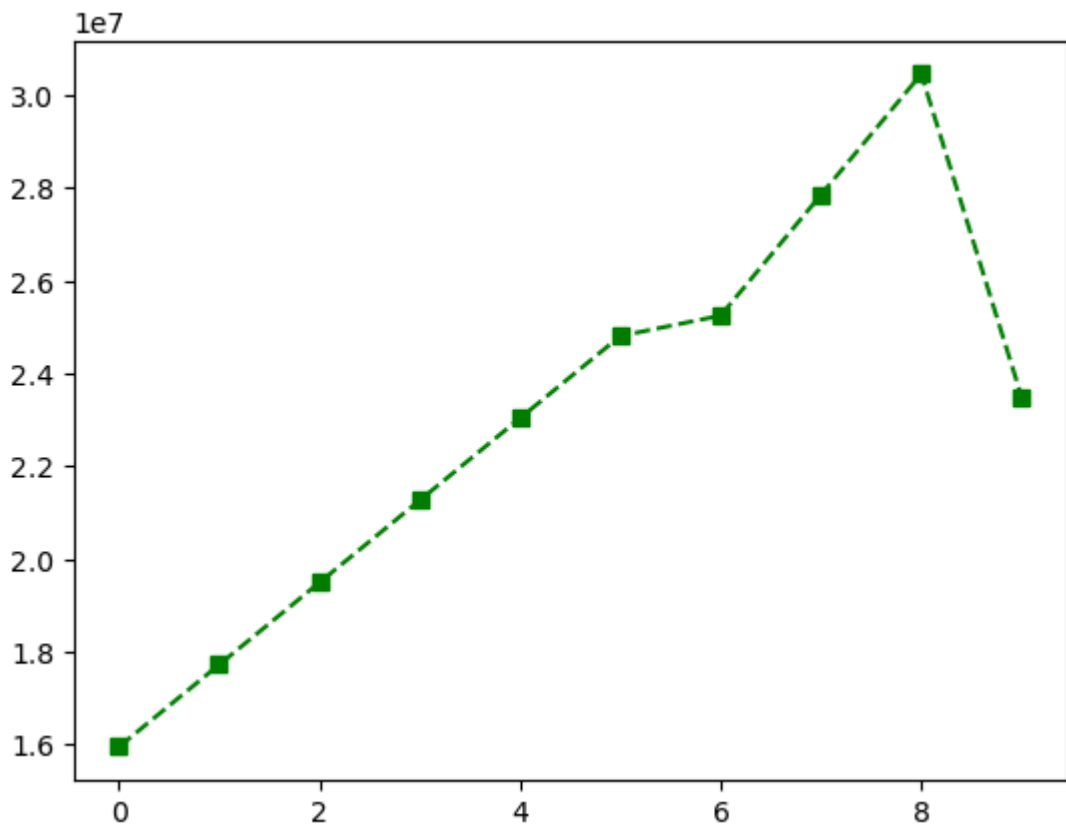
```

ValueError: Unrecognized marker style 'square'



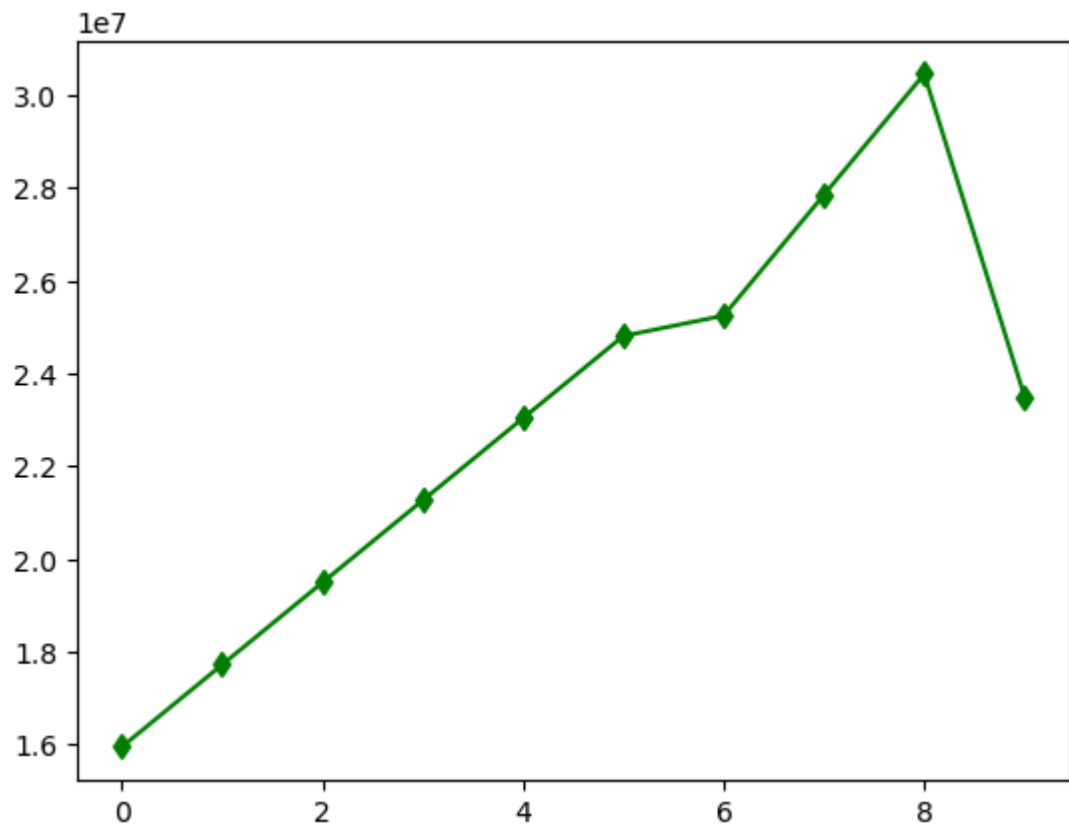
```
In [48]: plt.plot(Salary[0],ls='--',color='green',marker='s')
```

```
Out[48]: [<matplotlib.lines.Line2D at 0x1ba537d8d70>]
```



```
In [49]: plt.plot(Salary[0],ls='-',color='green',marker='d')
```

Out[49]: [<matplotlib.lines.Line2D at 0x1ba537d8f50>]



```
In [50]: plt.plot(Salary[0],ls='-',color='green',marker='r')
```

```

-----
ValueError                                Traceback (most recent call last)
File ~\anaconda3\Lib\site-packages\matplotlib\markers.py:326, in MarkerStyle._set
_marker(self, marker)
    325 try:
--> 326     Path(marker)
    327     self._marker_function = self._set_vertices

File ~\anaconda3\Lib\site-packages\matplotlib\path.py:129, in Path.__init__(self,
vertices, codes, _interpolation_steps, closed, readonly)
    101 """
    102 Create a new path with the given vertices and codes.
    103
    (...)
    127     and codes as read-only arrays.
    128 """
--> 129 vertices = _to_unmasked_float_array(vertices)
    130 _api.check_shape((None, 2), vertices=vertices)

File ~\anaconda3\Lib\site-packages\matplotlib\cbook.py:1398, in _to_unmasked_floa
t_array(x)
    1397 else:
-> 1398     return np.asarray(x, float)

ValueError: could not convert string to float: 'r'

The above exception was the direct cause of the following exception:

ValueError                                Traceback (most recent call last)
Cell In[50], line 1
----> 1 plt.plot(Salary[0],ls='-',color='green',marker='r')

File ~\anaconda3\Lib\site-packages\matplotlib\pyplot.py:3794, in plot(scalex, sca
ley, data, *args, **kwargs)
    3786 @_copy_docstring_and_deprecators(Axes.plot)
    3787 def plot(
    3788     *args: float | ArrayLike | str,
    (...)
    3792     **kwargs,
    3793 ) -> list[Line2D]:
-> 3794     return gca().plot(
    3795         *args,
    3796         scalex=scalex,
    3797         scaley=scaley,
    3798         **({"data": data} if data is not None else {}),
    3799         **kwargs,
    3800     )

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_axes.py:1779, in Axes.plot(se
lf, 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
_var_args._call__(self, axes, data, *args, **kwargs)
    294     this += args[0],
    295     args = args[1:]
--> 296 yield from self._plot_args(
    297     axes, this, kwargs, ambiguous_fmt_datakey=ambiguous_fmt_datakey)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:534, in _process_plot
_var_args._plot_args(self, axes, tup, kwargs, return_kwargs, ambiguous_fmt_datakey)
    532     return list(result)
    533 else:
--> 534     return [l[0] for l in result]

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:527, in <genexpr>(.0)
    522 else:
    523     raise ValueError(
    524         f"label must be scalar or have the same length as the input "
    525         f"data, but found {len(label)} for {n_datasets} datasets.")
--> 527 result = (make_artist(axes, x[:, j % ncx], y[:, j % ncy], kw,
    528                     **kwargs, 'label': label))
    529     for j, label in enumerate(labels))
    531 if return_kwargs:
    532     return list(result)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:335, in _process_plot
_var_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

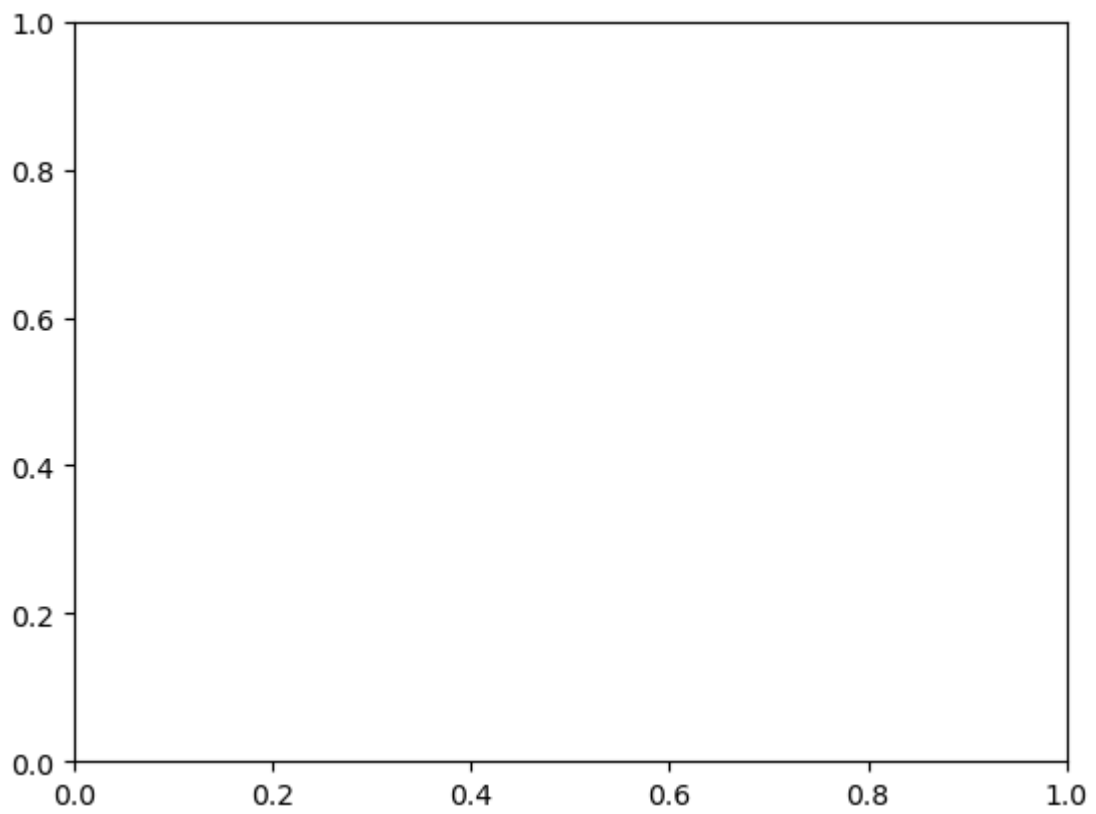
File ~\anaconda3\Lib\site-packages\matplotlib\lines.py:380, in Line2D.__init__(self, xdata, ydata, linewidth, linestyle, color, gapcolor, marker, markersize, markeredgewidth, markeredgewidth, markerfacecolor, markerfacecoloralt, fillstyle, antialiased, dash_capstyle, solid_capstyle, dash_joinstyle, solid_joinstyle, pickradius, drawstyle, markevery, **kwargs)
    378     marker = 'none' # Default.
    379 if not isinstance(marker, MarkerStyle):
--> 380     self._marker = MarkerStyle(marker, fillstyle)
    381 else:
    382     self._marker = marker

File ~\anaconda3\Lib\site-packages\matplotlib\markers.py:248, in MarkerStyle.__init__(self, marker, fillstyle, transform, capstyle, joinstyle)
    246 self._user_joinstyle = JoinStyle(joinstyle) if joinstyle is not None else None
    247 self._set_fillstyle(fillstyle)
--> 248 self._set_marker(marker)

File ~\anaconda3\Lib\site-packages\matplotlib\markers.py:329, in MarkerStyle._set
_marker(self, marker)
    327     self._marker_function = self._set_vertices
    328 except ValueError as err:
--> 329     raise ValueError(
    330         f'Unrecognized marker style {marker!r}') from err
    332 if not isinstance(marker, MarkerStyle):
    333     self._marker = marker

```

ValueError: Unrecognized marker style 'r'



```
In [51]: plt.plot(Salary[0],ls='-',color='green',marker='c')
```

```

-----
ValueError                                Traceback (most recent call last)
File ~\anaconda3\Lib\site-packages\matplotlib\markers.py:326, in MarkerStyle._set
_marker(self, marker)
    325 try:
--> 326     Path(marker)
    327     self._marker_function = self._set_vertices

File ~\anaconda3\Lib\site-packages\matplotlib\path.py:129, in Path.__init__(self,
vertices, codes, _interpolation_steps, closed, readonly)
    101 """
    102 Create a new path with the given vertices and codes.
    103
    (...)
    127     and codes as read-only arrays.
    128 """
--> 129 vertices = _to_unmasked_float_array(vertices)
    130 _api.check_shape((None, 2), vertices=vertices)

File ~\anaconda3\Lib\site-packages\matplotlib\cbook.py:1398, in _to_unmasked_floa
t_array(x)
    1397 else:
-> 1398     return np.asarray(x, float)

ValueError: could not convert string to float: 'c'

The above exception was the direct cause of the following exception:

ValueError                                Traceback (most recent call last)
Cell In[51], line 1
----> 1 plt.plot(Salary[0],ls='-',color='green',marker='c')

File ~\anaconda3\Lib\site-packages\matplotlib\pyplot.py:3794, in plot(scalex, sca
ley, data, *args, **kwargs)
    3786 @_copy_docstring_and_deprecators(Axes.plot)
    3787 def plot(
    3788     *args: float | ArrayLike | str,
    (...)
    3792     **kwargs,
    3793 ) -> list[Line2D]:
-> 3794     return gca().plot(
    3795         *args,
    3796         scalex=scalex,
    3797         scaley=scaley,
    3798         **({"data": data} if data is not None else {}),
    3799         **kwargs,
    3800     )

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_axes.py:1779, in Axes.plot(se
lf, 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
_var_args._call__(self, axes, data, *args, **kwargs)
    294     this += args[0],
    295     args = args[1:]
--> 296 yield from self._plot_args(
    297     axes, this, kwargs, ambiguous_fmt_datakey=ambiguous_fmt_datakey)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:534, in _process_plot
_var_args._plot_args(self, axes, tup, kwargs, return_kwargs, ambiguous_fmt_datakey)
    532     return list(result)
    533 else:
--> 534     return [l[0] for l in result]

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:527, in <genexpr>(.0)
    522 else:
    523     raise ValueError(
    524         f"label must be scalar or have the same length as the input "
    525         f"data, but found {len(label)} for {n_datasets} datasets.")
--> 527 result = (make_artist(axes, x[:, j % ncx], y[:, j % ncy], kw,
    528                     **kwargs, 'label': label))
    529     for j, label in enumerate(labels))
    531 if return_kwargs:
    532     return list(result)

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_base.py:335, in _process_plot
_var_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

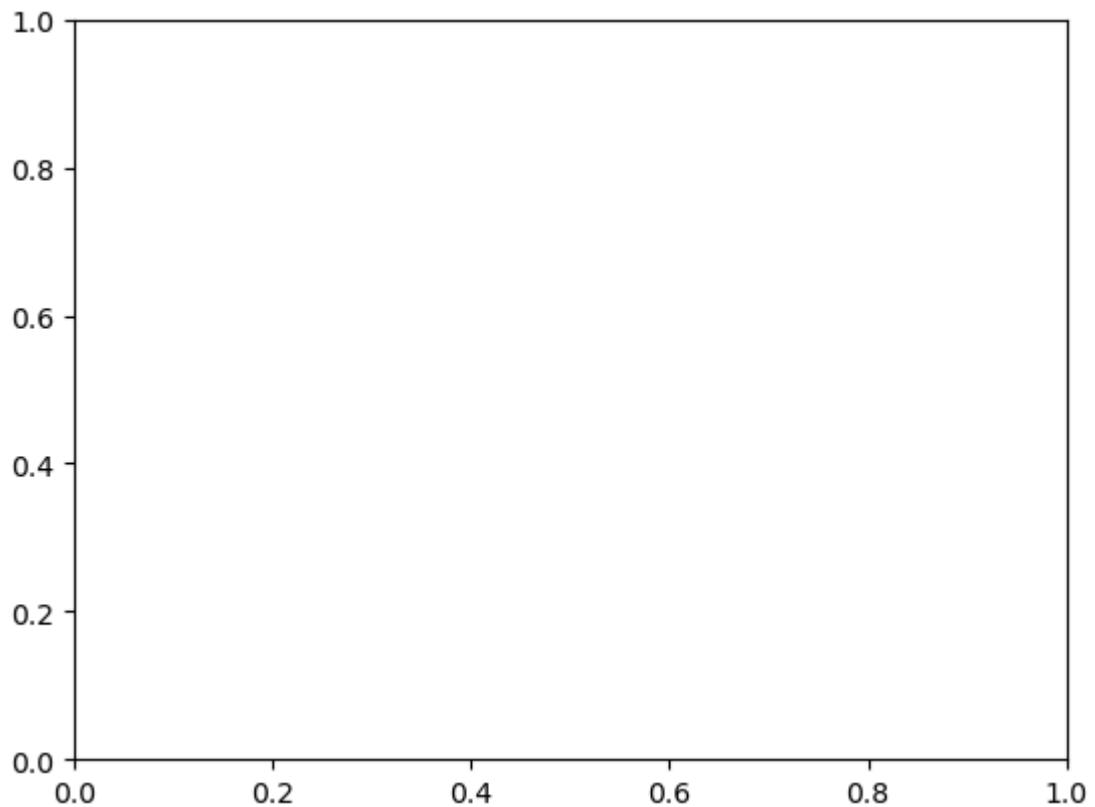
File ~\anaconda3\Lib\site-packages\matplotlib\lines.py:380, in Line2D.__init__(self, xdata, ydata, linewidth, linestyle, color, gapcolor, marker, markersize, markeredgewidth, markeredgewidth, markerfacecolor, markerfacecoloralt, fillstyle, antialiased, dash_capstyle, solid_capstyle, dash_joinstyle, solid_joinstyle, pickradius, drawstyle, markevery, **kwargs)
    378     marker = 'none' # Default.
    379 if not isinstance(marker, MarkerStyle):
--> 380     self._marker = MarkerStyle(marker, fillstyle)
    381 else:
    382     self._marker = marker

File ~\anaconda3\Lib\site-packages\matplotlib\markers.py:248, in MarkerStyle.__init__(self, marker, fillstyle, transform, capstyle, joinstyle)
    246 self._user_joinstyle = JoinStyle(joinstyle) if joinstyle is not None else None
    247 self._set_fillstyle(fillstyle)
--> 248 self._set_marker(marker)

File ~\anaconda3\Lib\site-packages\matplotlib\markers.py:329, in MarkerStyle._set
_marker(self, marker)
    327     self._marker_function = self._set_vertices
    328 except ValueError as err:
--> 329     raise ValueError(
    330         f'Unrecognized marker style {marker!r}') from err
    332 if not isinstance(marker, MarkerStyle):
    333     self._marker = marker

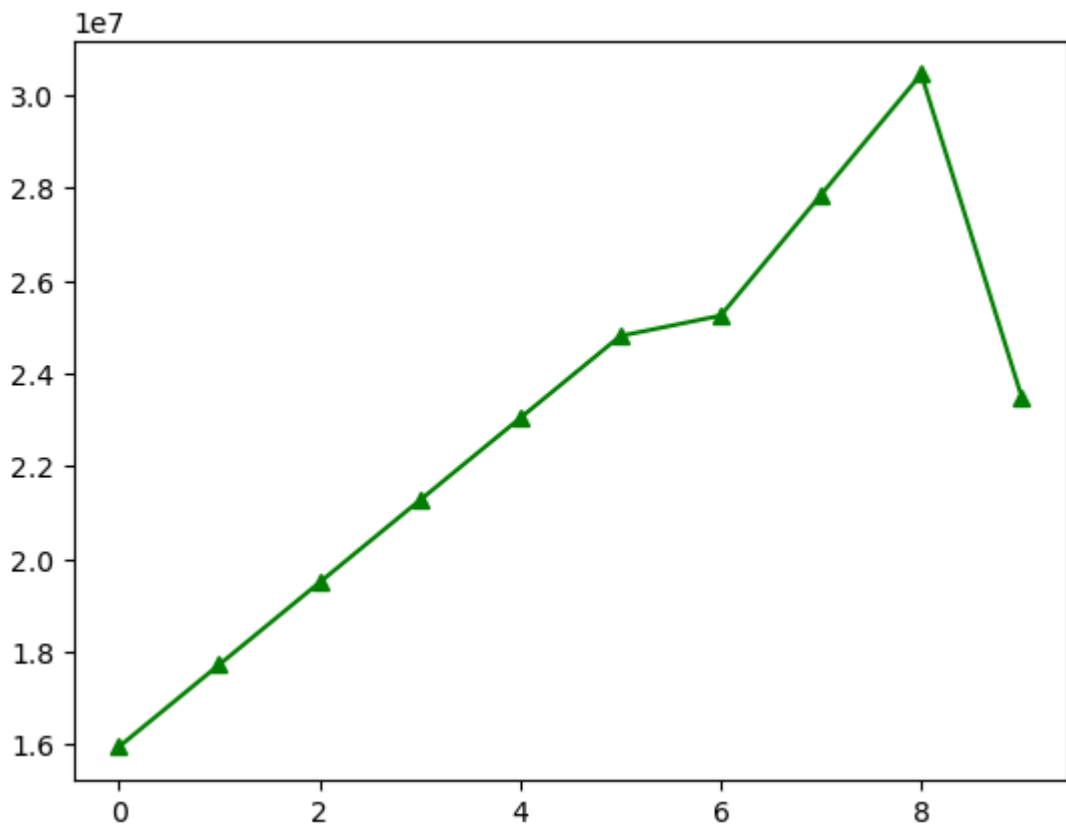
```


ValueError: Unrecognized marker style 'c'



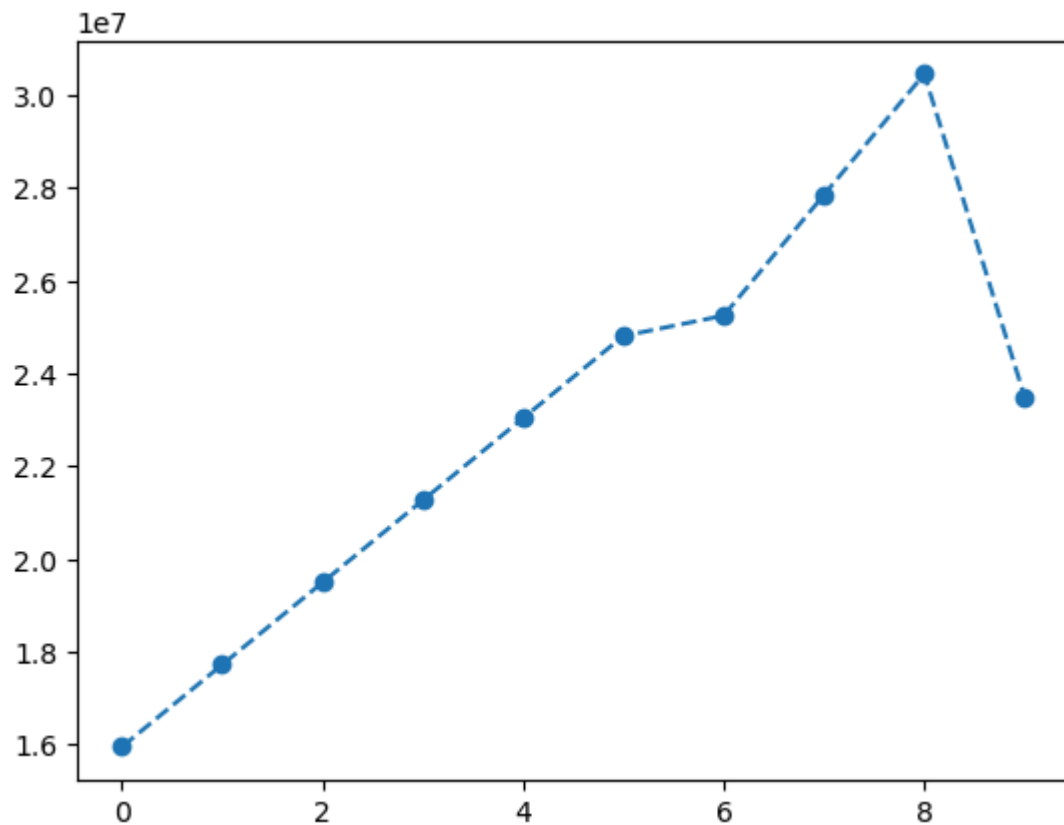
```
In [52]: plt.plot(Salary[0],ls='-',color='green',marker='^')
```

```
Out[52]: [<matplotlib.lines.Line2D at 0x1ba5395e1b0>]
```



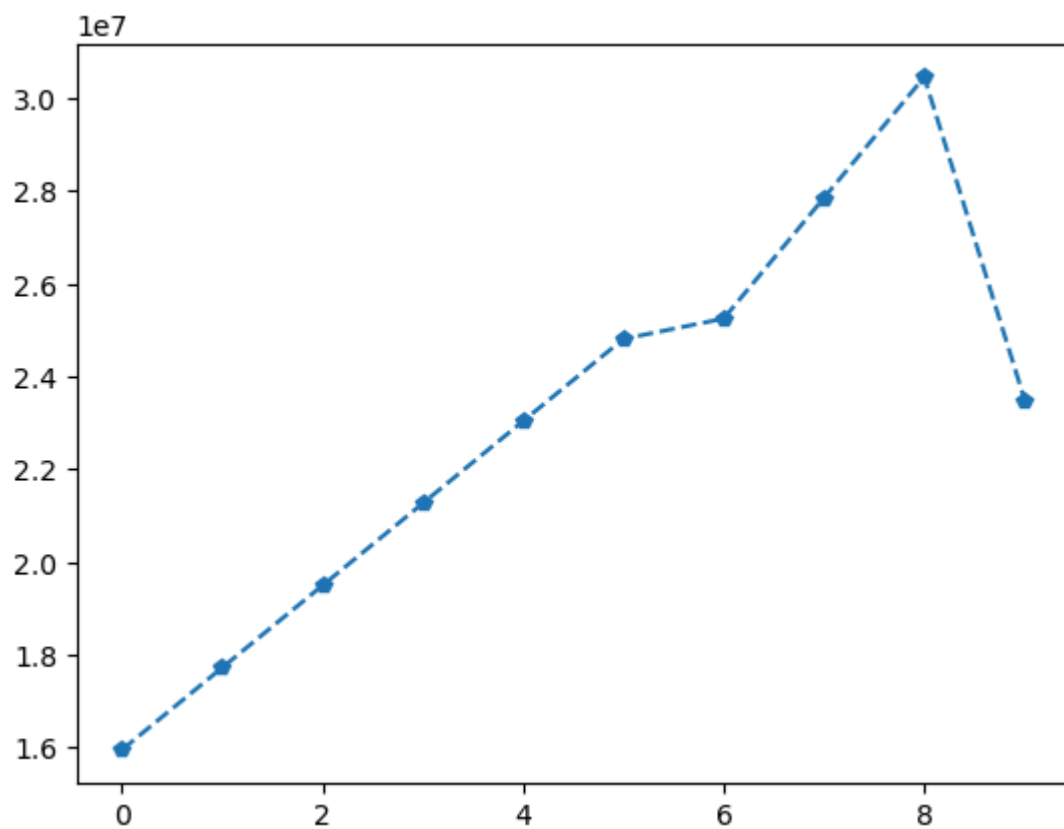
```
In [54]: plt.plot(Salary[0],ls='--',marker='o')
```

Out[54]: [



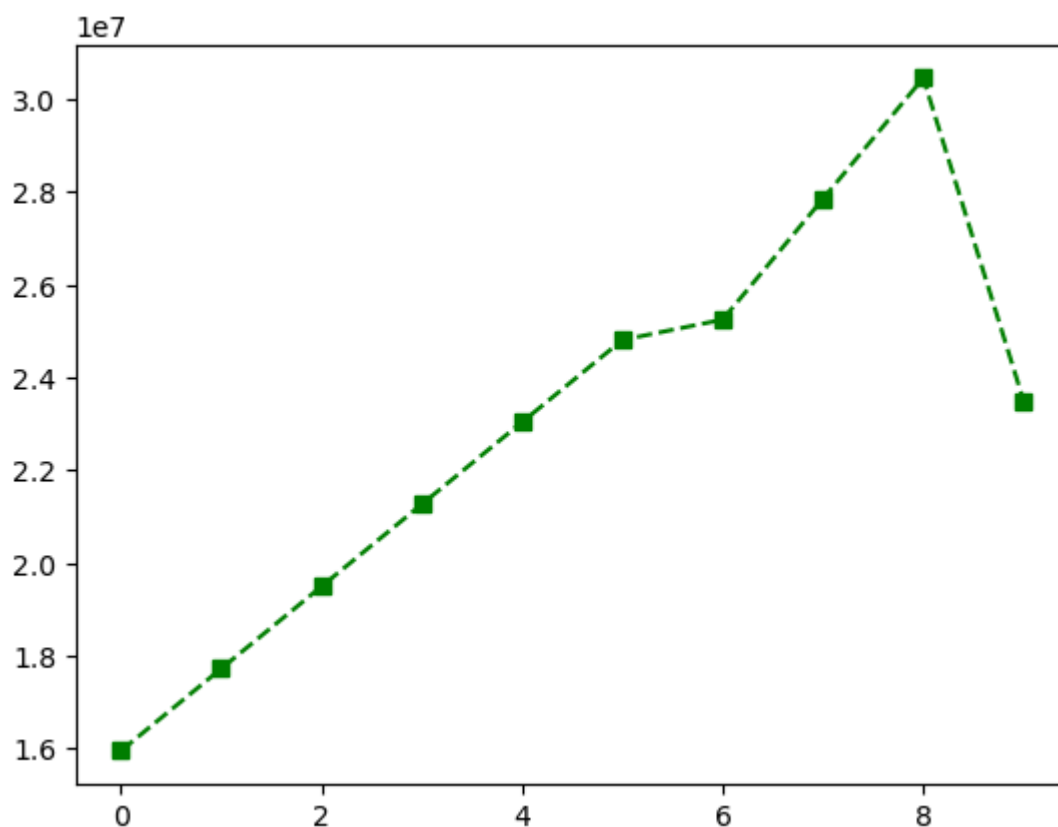
In [55]: `plt.plot(Salary[0],ls='--',marker='p')`

Out[55]: [



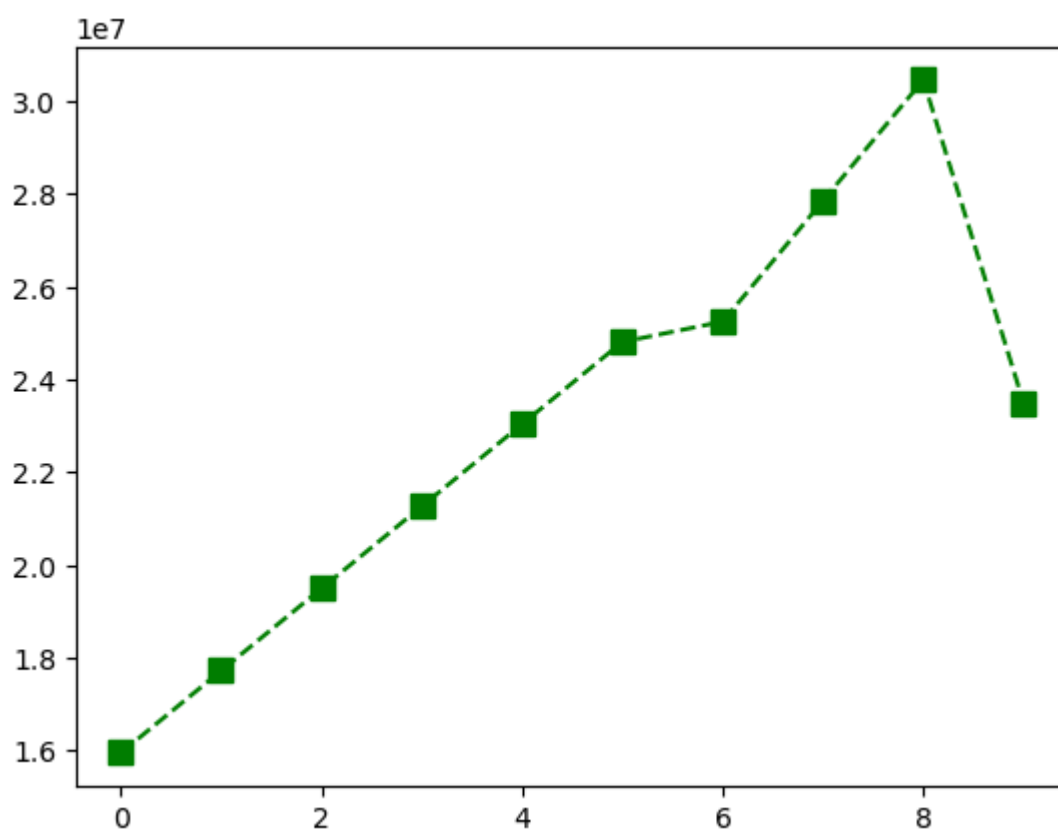
In [57]: `plt.plot(Salary[0],ls='--',color='green',marker='s')`

Out[57]: [<matplotlib.lines.Line2D at 0x1ba53a94d10>]



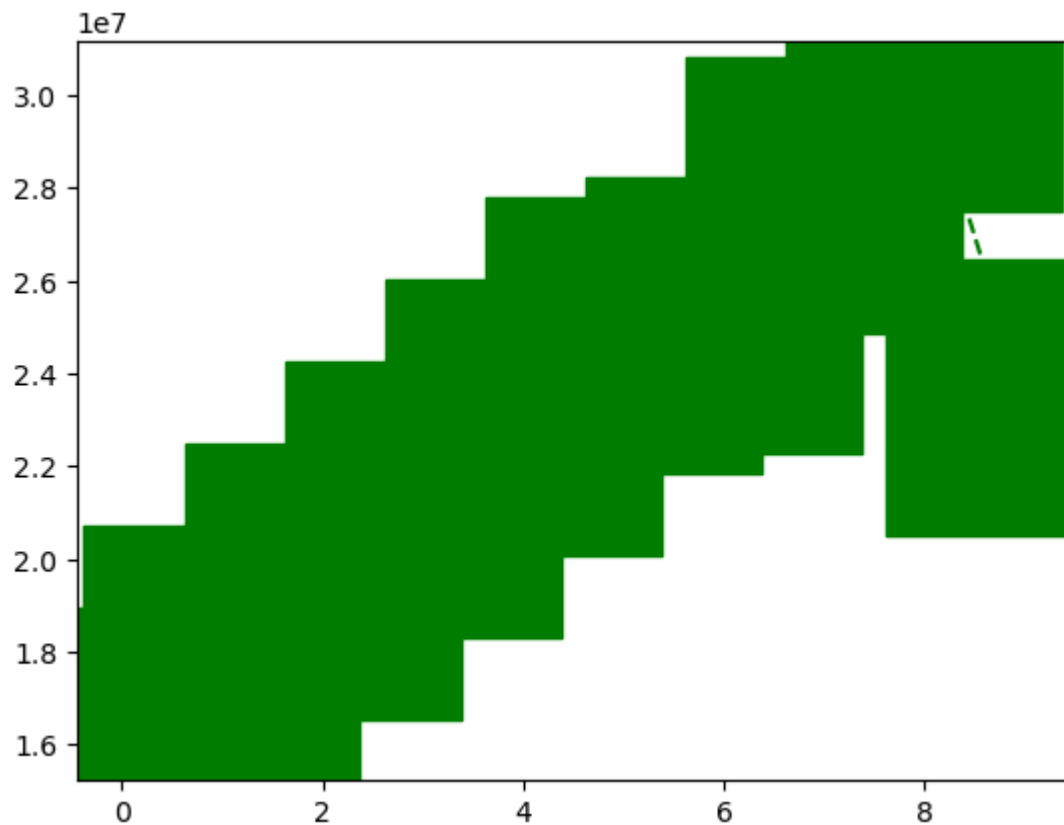
In [58]: `plt.plot(Salary[0],ls='--',color='green',marker='s',ms='8')`

Out[58]: [<matplotlib.lines.Line2D at 0x1ba53af2180>]



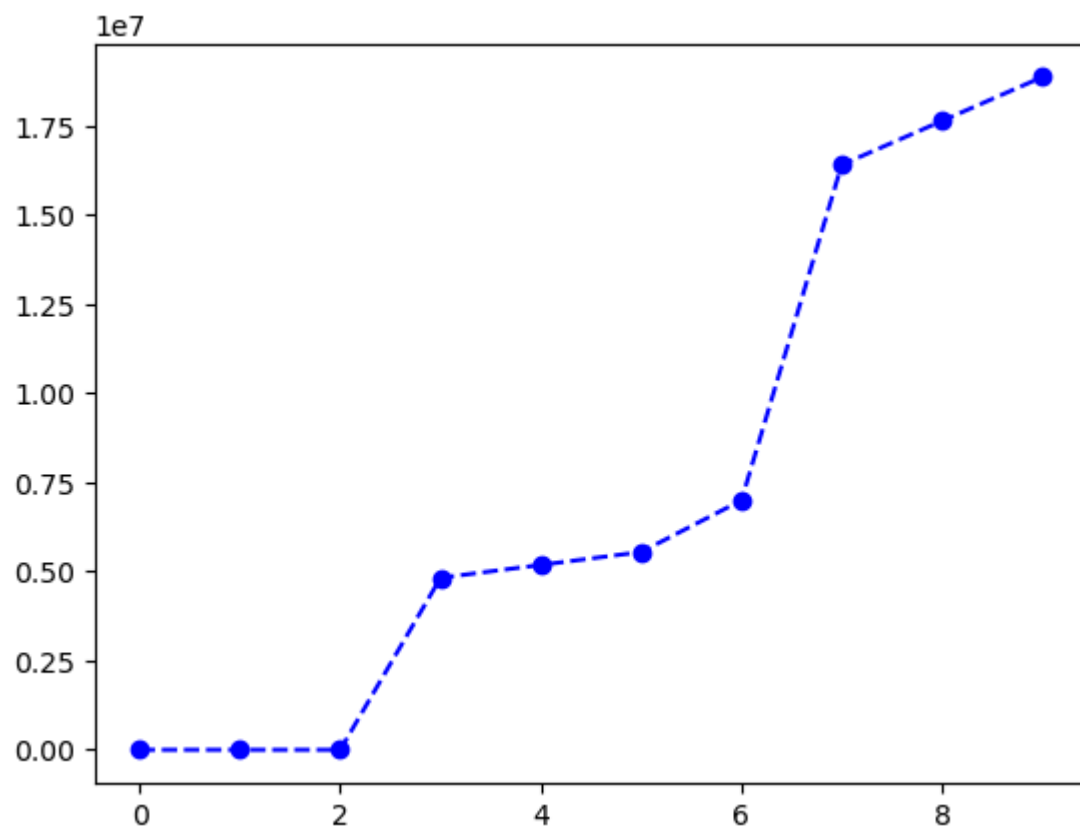
In [59]: `plt.plot(Salary[0],ls='--',color='green',marker='s',ms=100)`

Out[59]: [



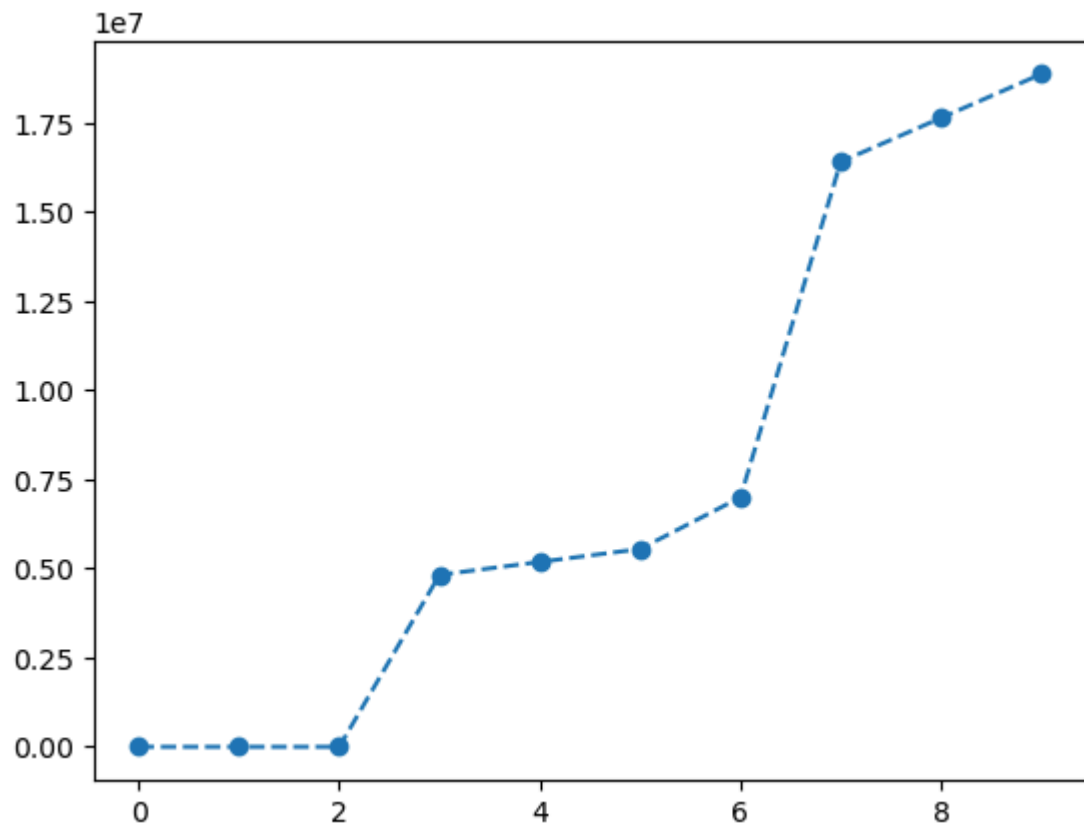
In [60]: `plt.plot(Salary[8],ls='--',color='blue',marker='o')`

Out[60]: [



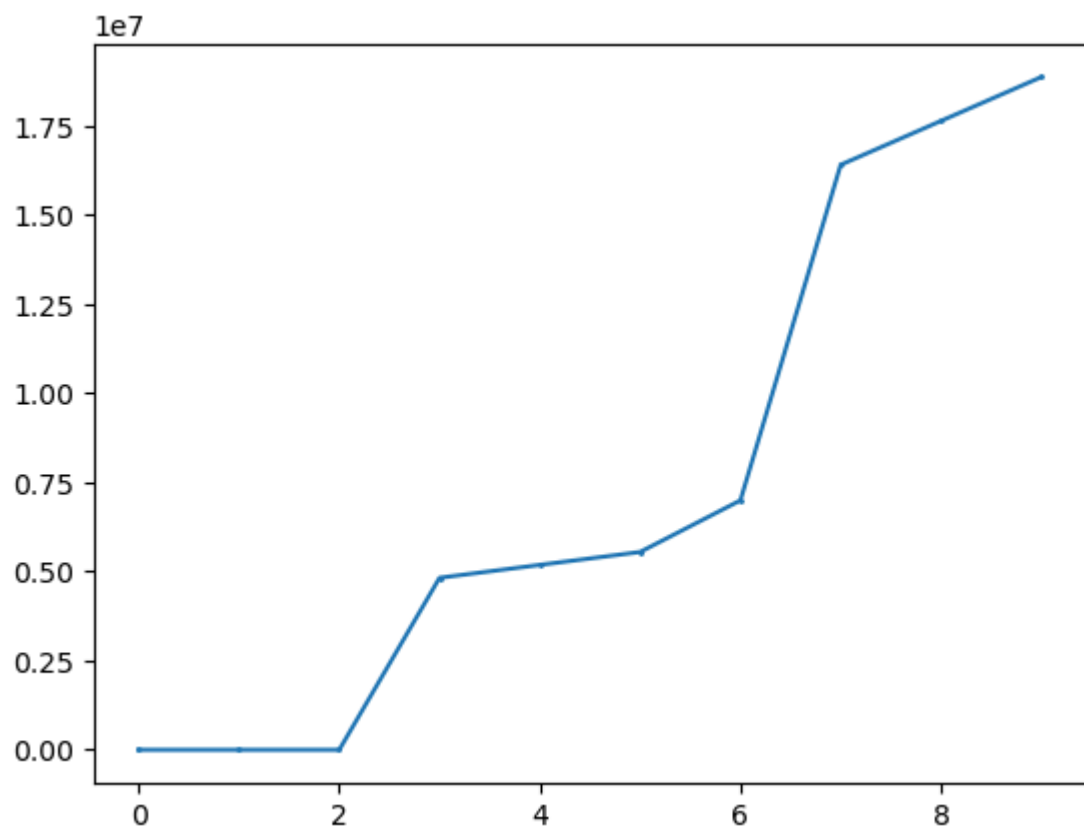
In [61]: `plt.plot(Salary[8],ls='--',marker='o')`

Out[61]: [



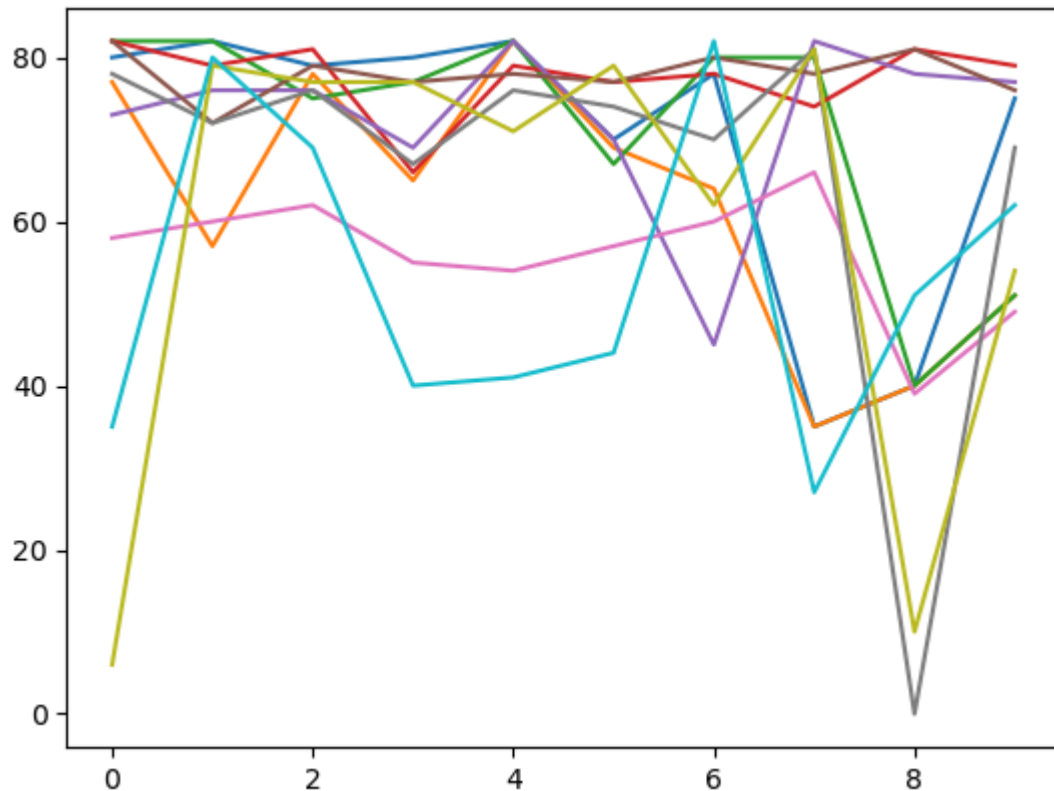
In [62]: `plt.plot(Salary[8],ls='-',marker='o',ms=1)`

Out[62]: [



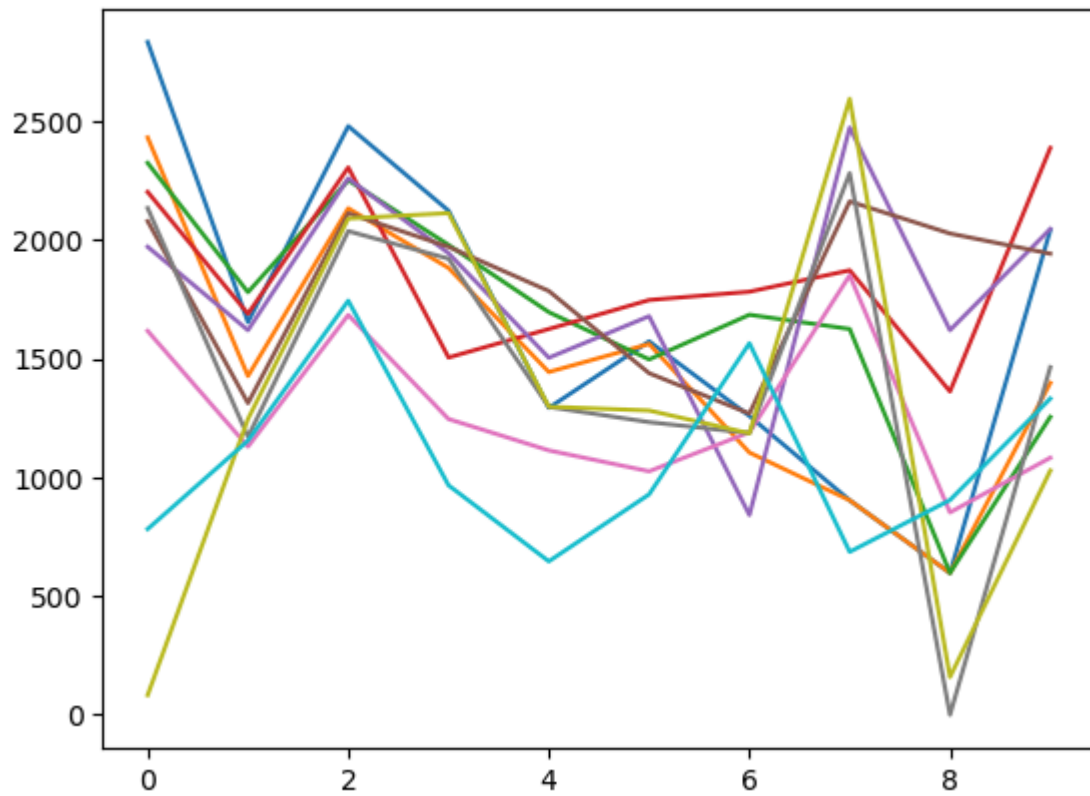
In [63]: `plt.plot(Games,ls='--')`

```
Out[63]: [<matplotlib.lines.Line2D at 0x1ba53c1c8c0>,
<matplotlib.lines.Line2D at 0x1ba53c1c980>,
<matplotlib.lines.Line2D at 0x1ba53c1ca70>,
<matplotlib.lines.Line2D at 0x1ba53c1cb60>,
<matplotlib.lines.Line2D at 0x1ba53c1cc20>,
<matplotlib.lines.Line2D at 0x1ba53c1cd10>,
<matplotlib.lines.Line2D at 0x1ba53c1ce00>,
<matplotlib.lines.Line2D at 0x1ba53c1cef0>,
<matplotlib.lines.Line2D at 0x1ba53c1cfe0>,
<matplotlib.lines.Line2D at 0x1ba53c1d0d0>]
```



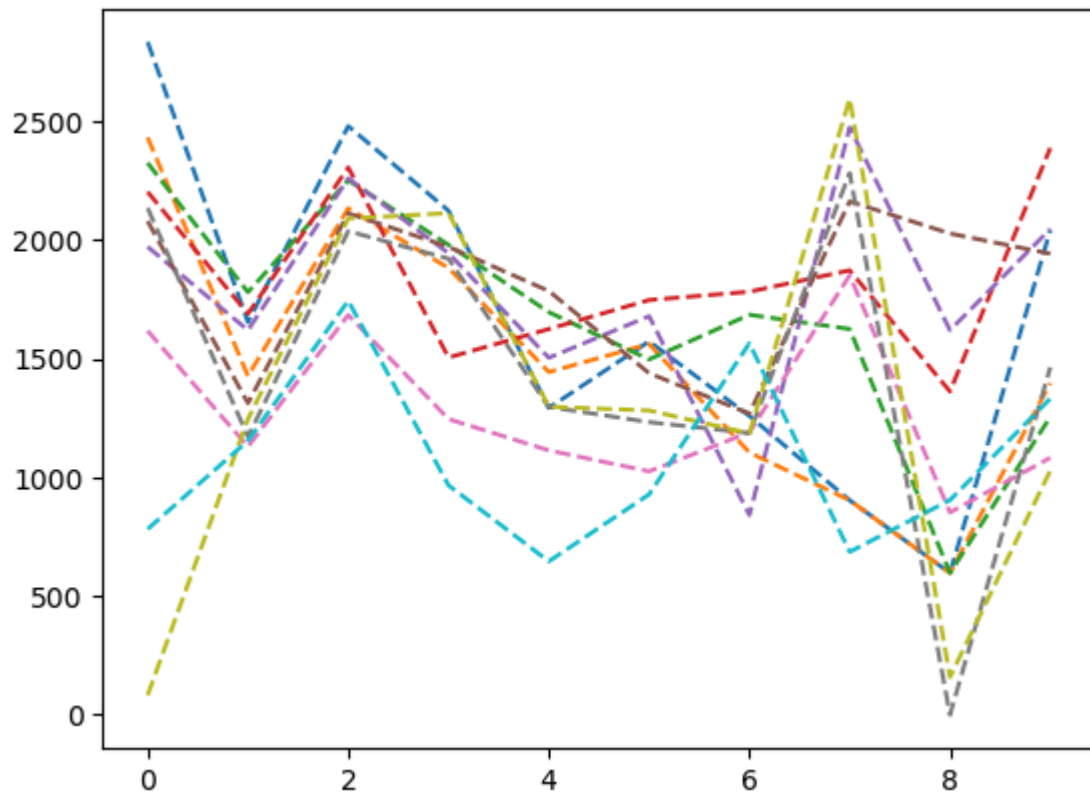
```
In [64]: plt.plot(Points)
```

```
Out[64]: [<matplotlib.lines.Line2D at 0x1ba53c818e0>,
<matplotlib.lines.Line2D at 0x1ba53be5670>,
<matplotlib.lines.Line2D at 0x1ba53c81910>,
<matplotlib.lines.Line2D at 0x1ba53c81a60>,
<matplotlib.lines.Line2D at 0x1ba53c81b50>,
<matplotlib.lines.Line2D at 0x1ba53c1eea0>,
<matplotlib.lines.Line2D at 0x1ba53c81c40>,
<matplotlib.lines.Line2D at 0x1ba53c81dc0>,
<matplotlib.lines.Line2D at 0x1ba53c81eb0>,
<matplotlib.lines.Line2D at 0x1ba53c81fa0>]
```



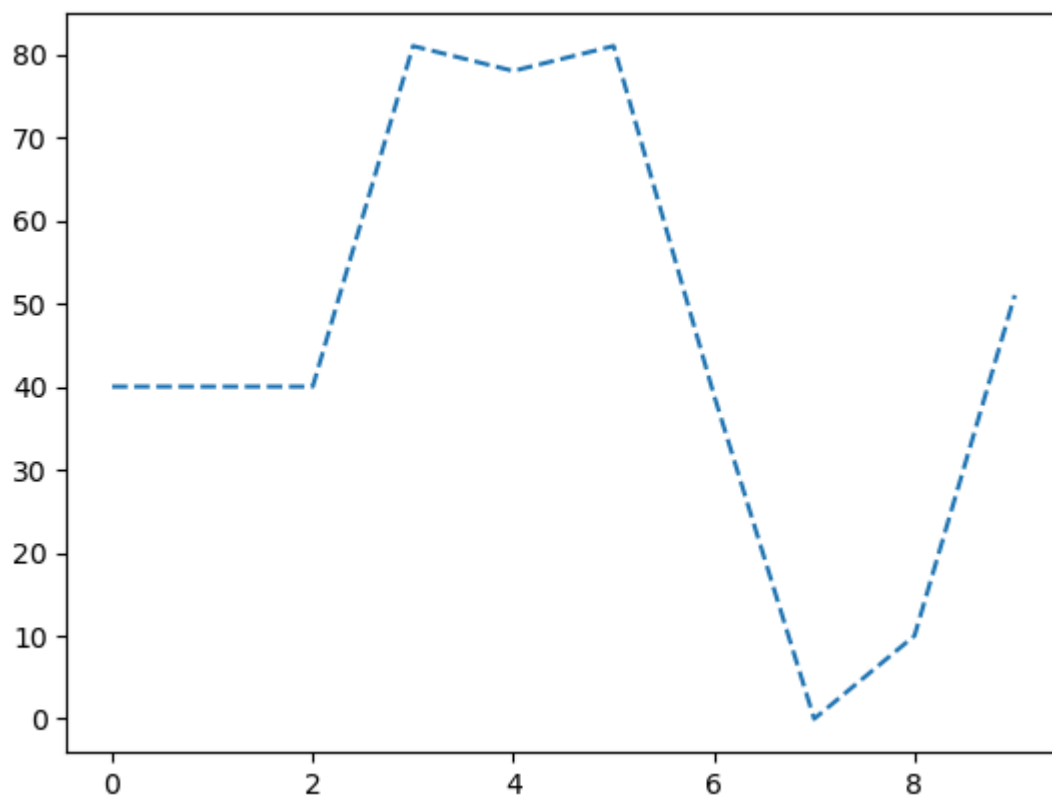
```
In [65]: plt.plot(Points,ls='--')
```

```
Out[65]: [<matplotlib.lines.Line2D at 0x1ba53e25d60>,  
<matplotlib.lines.Line2D at 0x1ba53e25e50>,  
<matplotlib.lines.Line2D at 0x1ba53e25f40>,  
<matplotlib.lines.Line2D at 0x1ba53e26000>,  
<matplotlib.lines.Line2D at 0x1ba53c593a0>,  
<matplotlib.lines.Line2D at 0x1ba53e26180>,  
<matplotlib.lines.Line2D at 0x1ba53e26270>,  
<matplotlib.lines.Line2D at 0x1ba53e26360>,  
<matplotlib.lines.Line2D at 0x1ba53e26450>,  
<matplotlib.lines.Line2D at 0x1ba53e26510>]
```

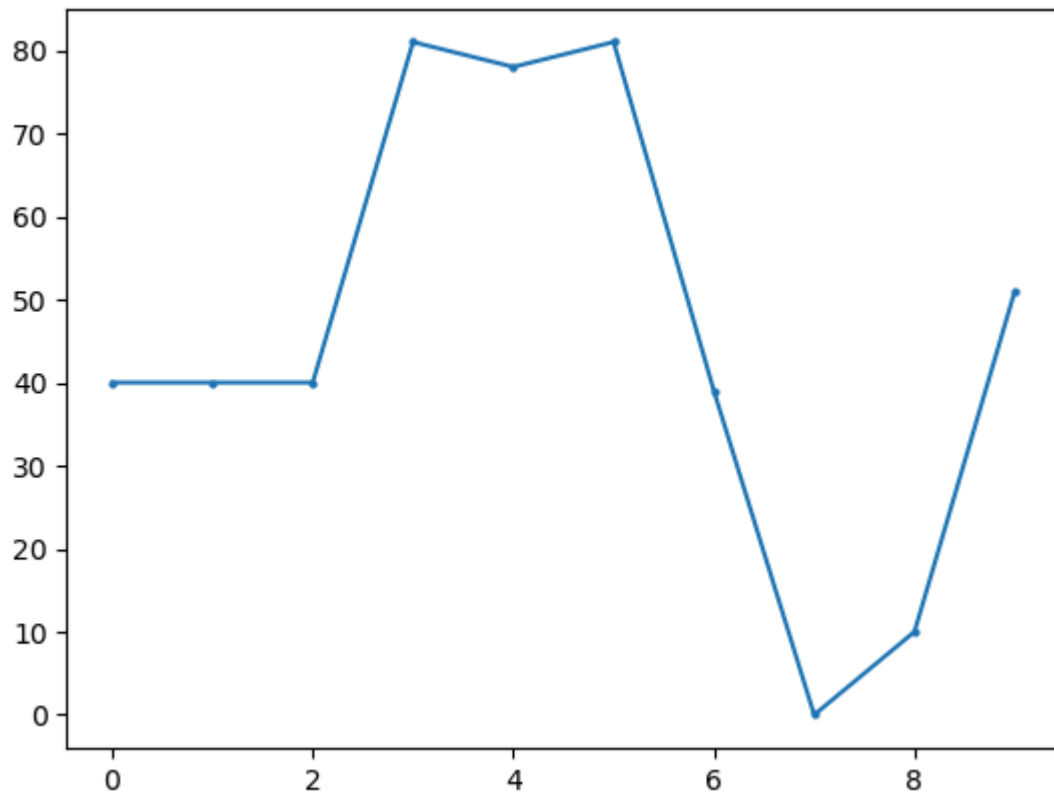


```
In [66]: plt.plot(Games[8],ls='--')
```

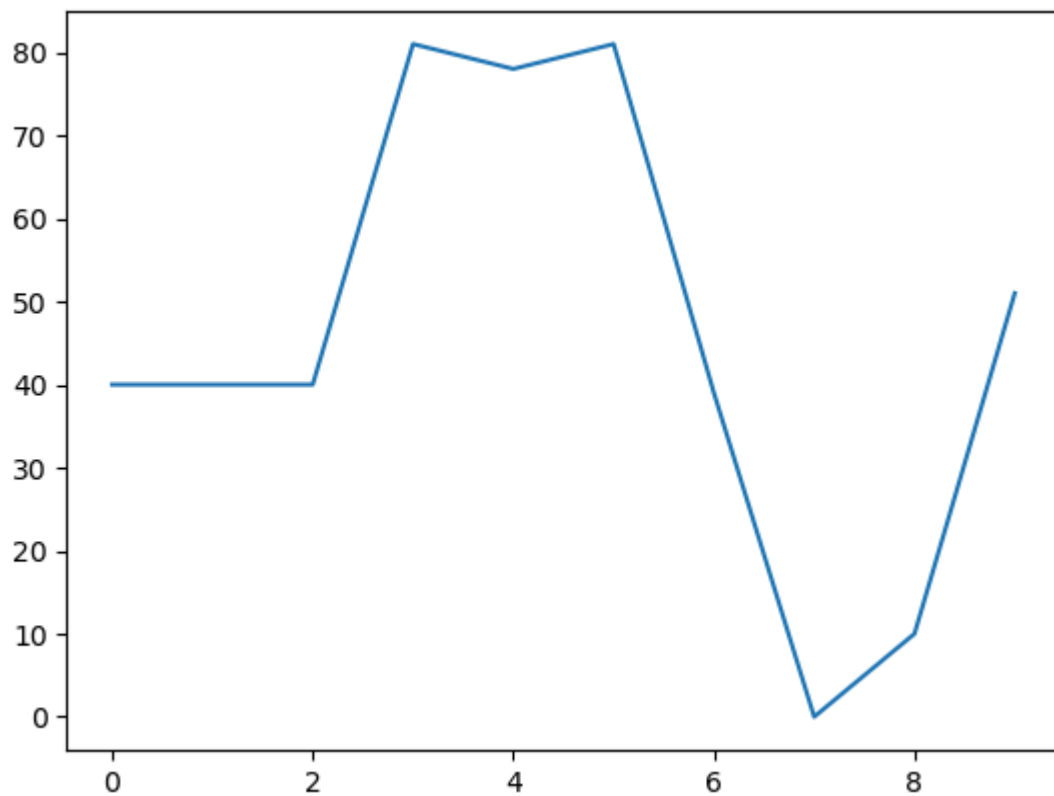
```
Out[66]: [<matplotlib.lines.Line2D at 0x1ba53e9e120>]
```



```
In [68]: plt.plot(Games[8],ls='-',marker='o',ms=2)
plt.show()
```

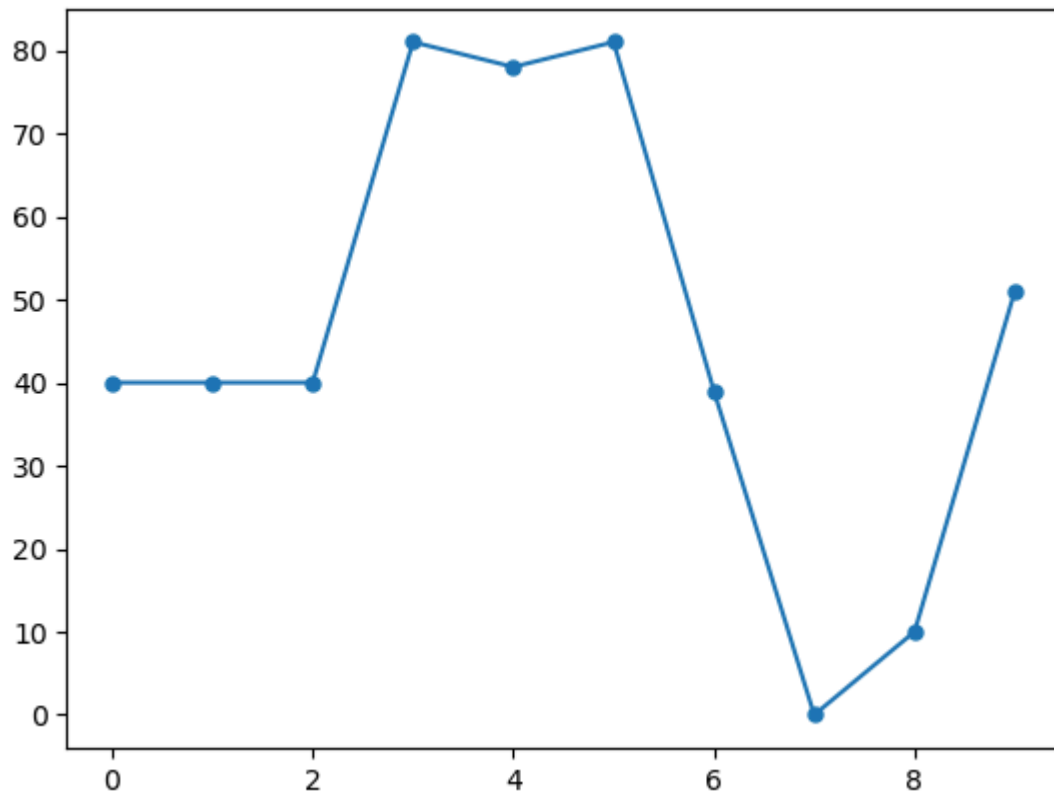



```
In [69]: plt.plot(Games[8])  
plt.show()
```



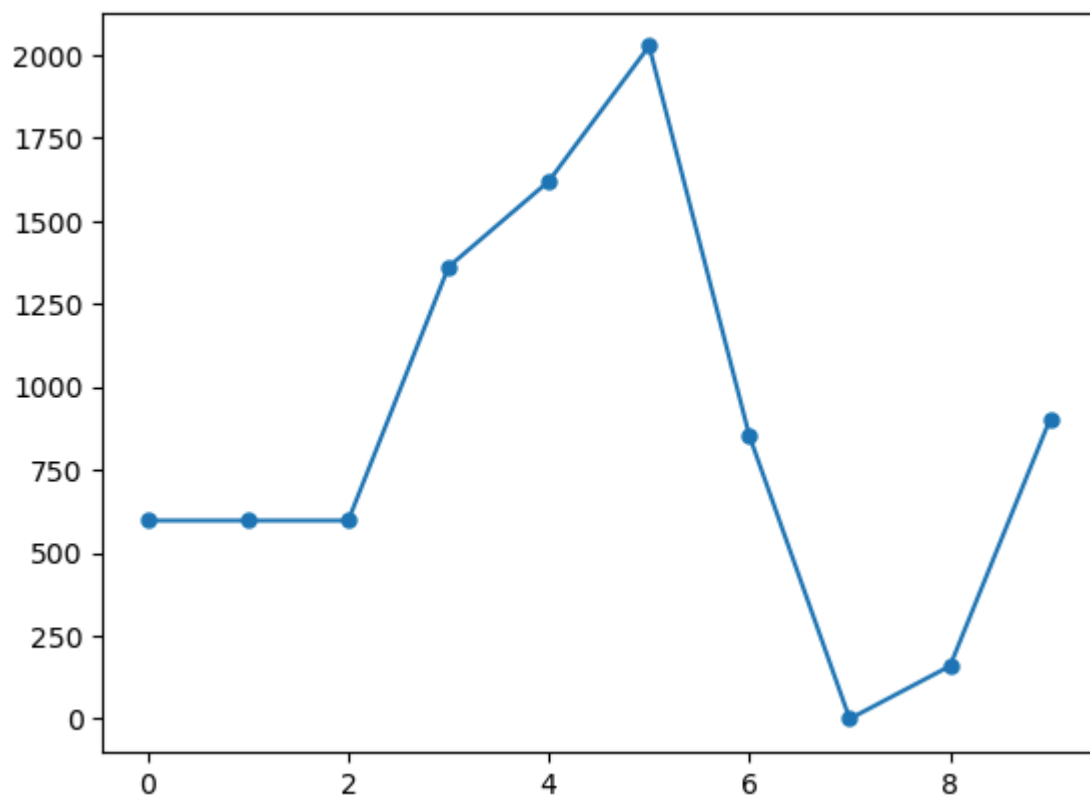
```
In [70]: plt.plot(Games[8],ls='-',marker='o',ms=5)
```

```
Out[70]: [<matplotlib.lines.Line2D at 0x1ba55109220>]
```



```
In [71]: plt.plot(Points[8],ls='-',marker='o',ms=5)
```

```
Out[71]: [matplotlib.lines.Line2D at 0x1ba5514ea50>]
```



```
In [ ]:
```