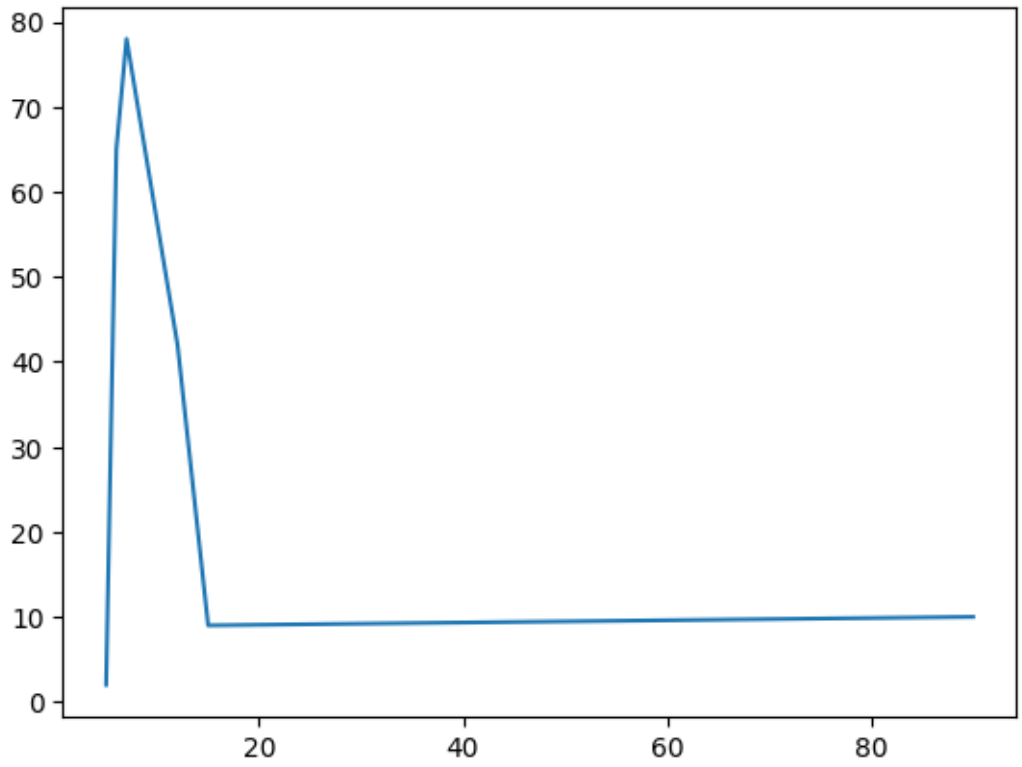
Aditya_Matplotlib

March 6, 2024

[19]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

[2]:
```
x=np.array([5,6,7,12,15,90])
y=np.array([2,65,78,42,9,10])
plt.plot(x,y)
```

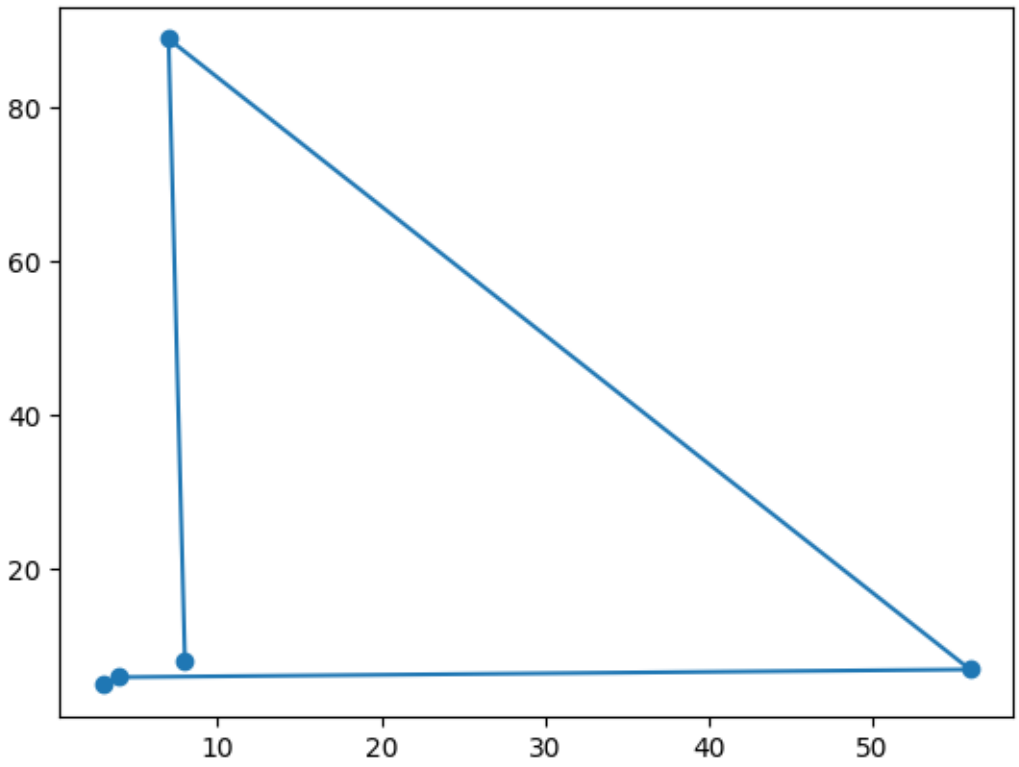
[2]:
```
[<matplotlib.lines.Line2D at 0x207c4ba9950>]
```



[4]:
```
x1=np.array([3,4,56,7,8])
y1=np.array([5,6,7,89,8])
```

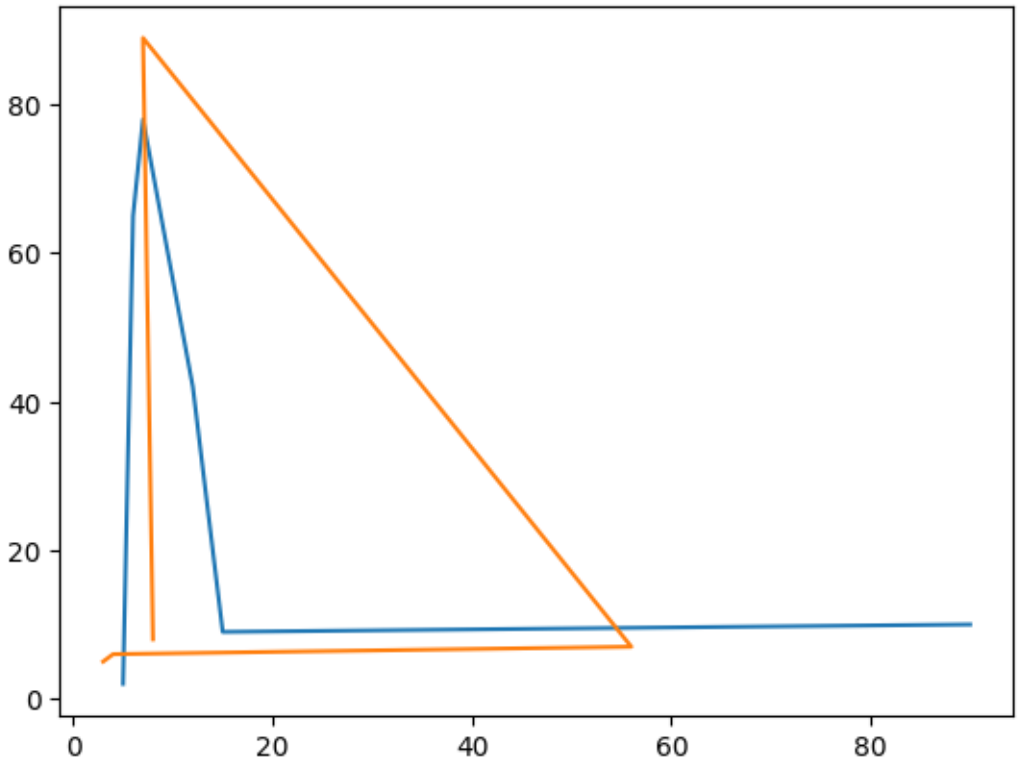
```
plt.plot(x1,y1,marker="o")
```

[4]: [<matplotlib.lines.Line2D at 0x207c70cca50>]



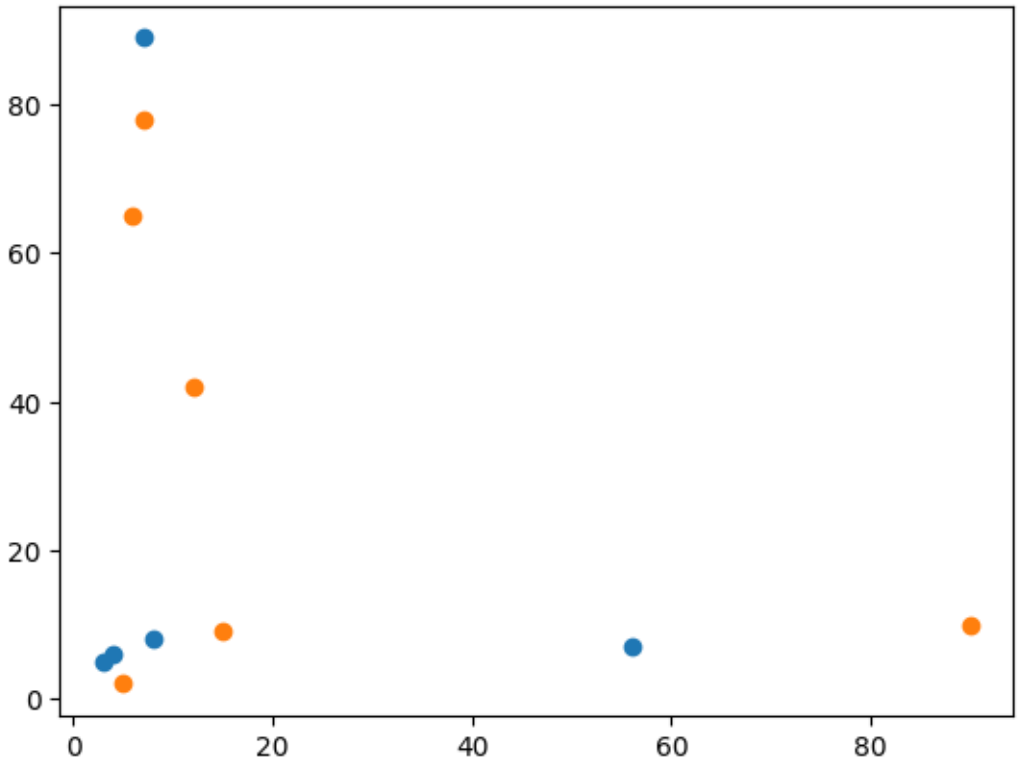
[5]:
```
plt.plot(x,y,x1,y1)
```

[5]: [<matplotlib.lines.Line2D at 0x207c7185b10>,
<matplotlib.lines.Line2D at 0x207c7190a50>]



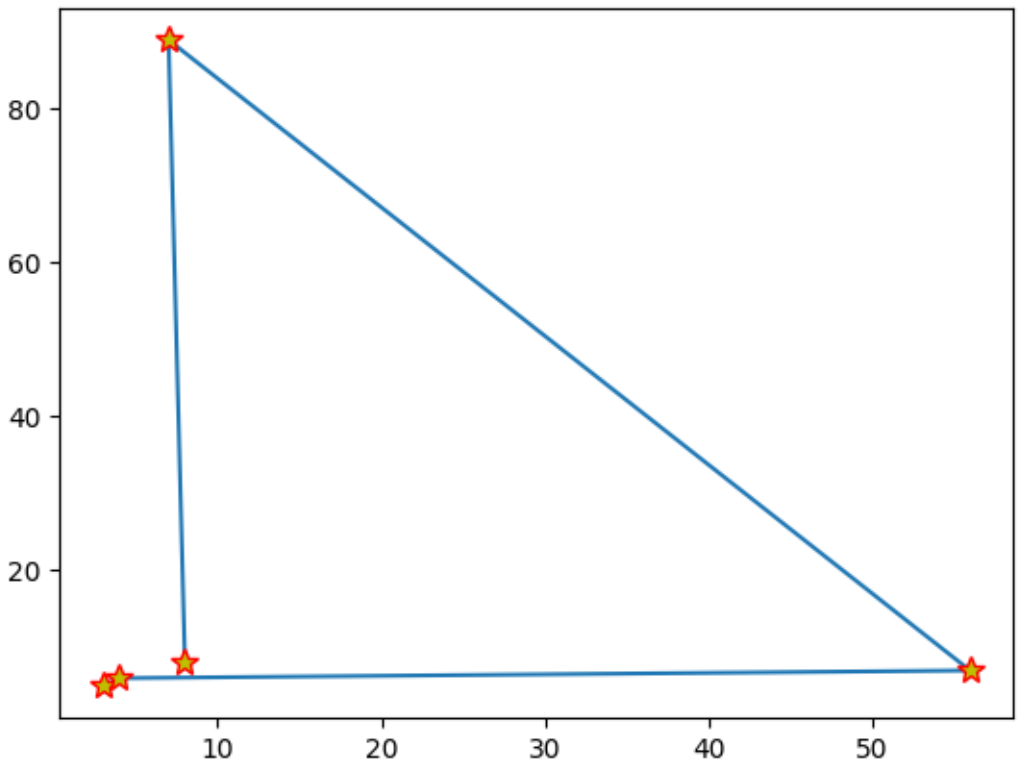
[6]:
```
plt.plot(x1,y1,"o",x,y,"o")
```

[6]:
```
[<matplotlib.lines.Line2D at 0x207c4ec25d0>,
 <matplotlib.lines.Line2D at 0x207c71c8890>]
```



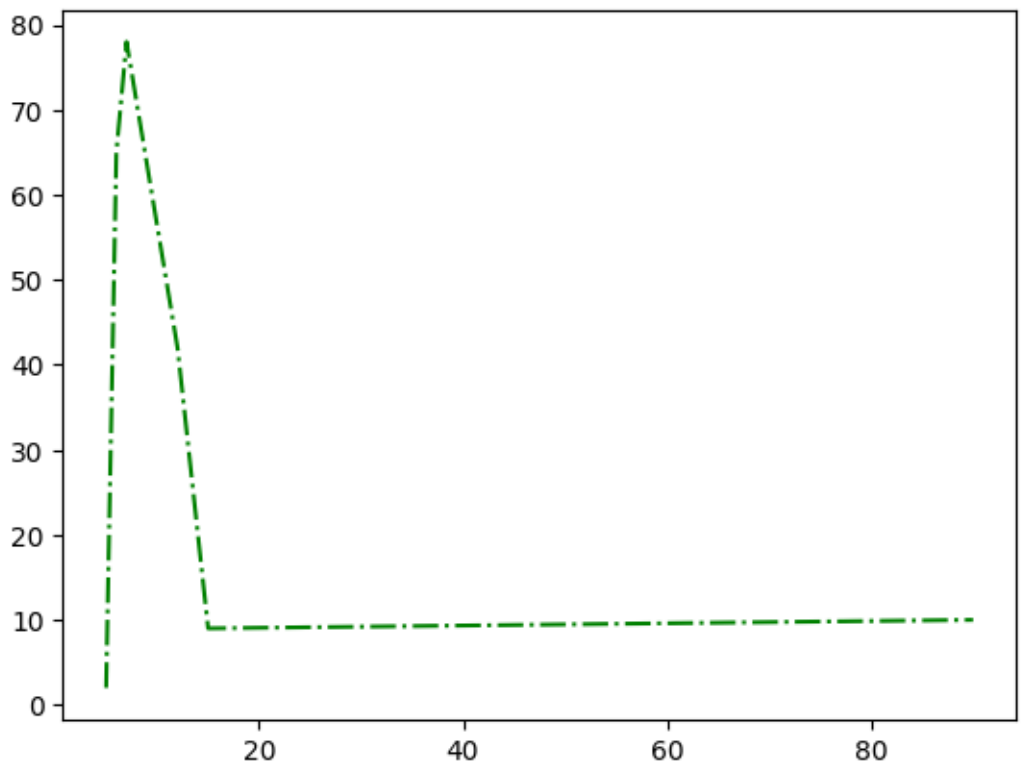
[7]:
```
plt.plot(x1,y1,marker="*",ms=10,mec="r",mfc="y") #markerfillcolor(mfc)
```

[7]: [<matplotlib.lines.Line2D at 0x207c7244750>]



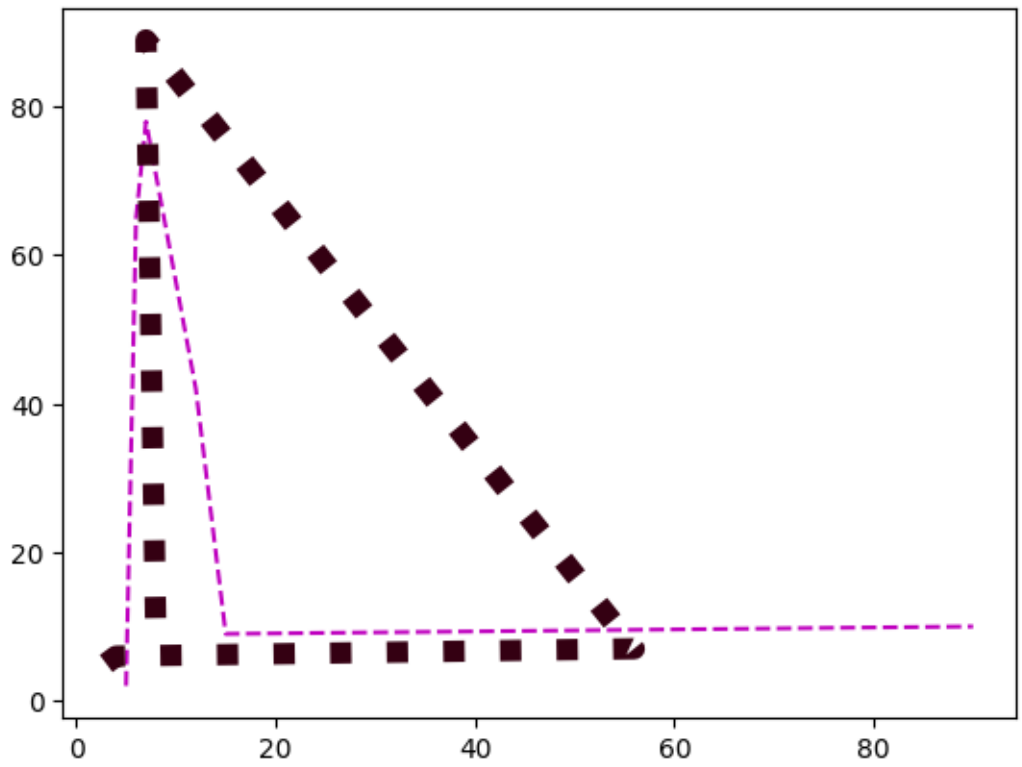
[8]:
```
plt.plot(x,y,linestyle='dashdot',color="g") #to styleline
```

[8]:
```
[<matplotlib.lines.Line2D at 0x207c71c94d0>]
```

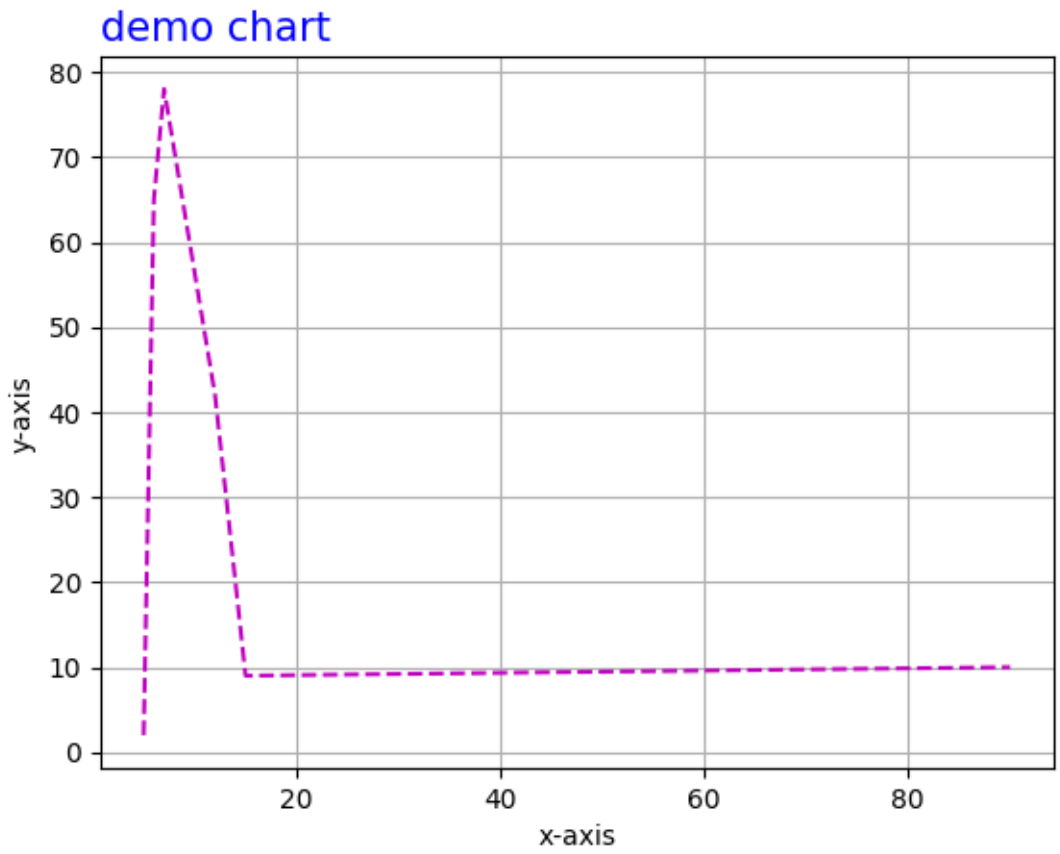


[9]:
```
plt.plot(x,y,linestyle='dashed',color='m')
plt.plot(x1,y1,linestyle='dotted',color='#340012',linewidth=8)
```

[9]: [<matplotlib.lines.Line2D at 0x207c4fea890>]

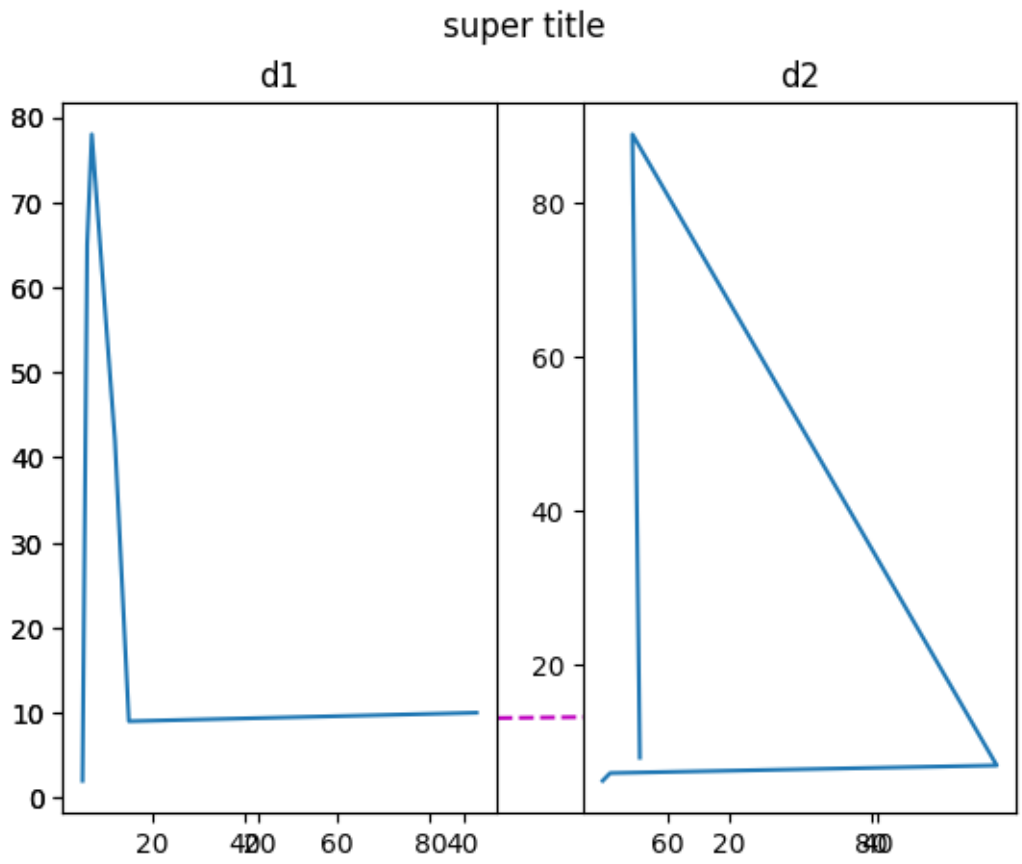


[10]:
```
font={'size':15,'color':"b"}
plt.xlabel("x-axis")
plt.ylabel("y-axis")
plt.title("demo chart",fontdict=font,loc='left')
plt.plot(x,y,linestyle='dashed',color='m')
plt.grid()#gives gripd line to your graph
```



[14]:
```
plt.plot(x,y,linestyle='dashed',color='m')
plt.grid(axis='x',linestyle='-.',color='b')
plt.subplot(1,2,1)
plt.title("d1")
plt.plot(x,y)
plt.subplot(1,2,2)
plt.title("d2")
plt.plot(x1,y1)
plt.suptitle("super title")
```

[14]: Text(0.5, 0.98, 'super title')



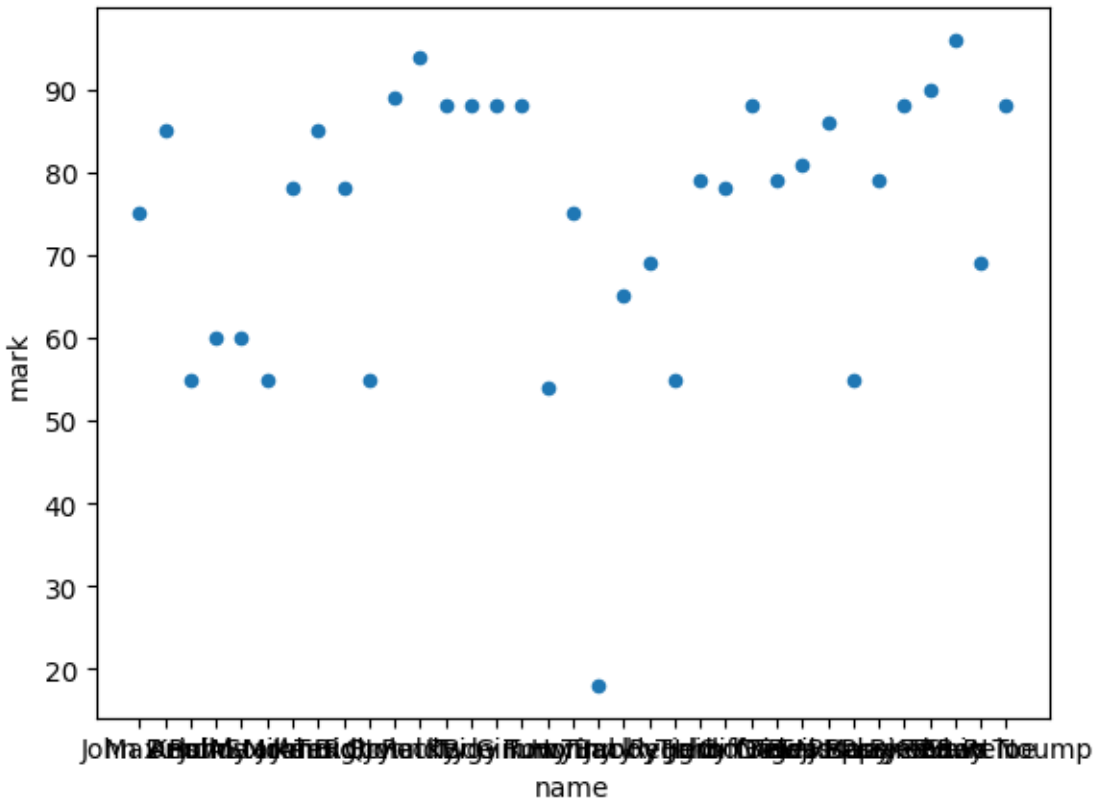
[15]:
```
std=pd.read_csv("student.csv")
print(std)
```

```
    id         name  class  mark  gender
0    1     John Deo   Four    75  female
1    2     Max Ruin  Three    85    male
2    3       Arnold  Three    55    male
3    4   Krish Star   Four    60  female
4    5    John Mike   Four    60  female
5    6    Alex John   Four    55    male
6    7  My John Rob  Fifth    78    male
7    8       Asruid   Five    85    male
8    9      Tes Qry    Six    78    male
9   10     Big John   Four    55  female
10  11       Ronald    Six    89  female
11  12        Recky    Six    94  female
12  13          Kty  Seven    88  female
13  14        Bigy   Seven    88  female
14  15     Tade Row   Four    88    male
15  16        Gimmy   Four    88    male
```

16	17	Tumyu	Six	54	male
17	18	Honny	Five	75	male
18	19	Tinny	Nine	18	male
19	20	Jackly	Nine	65	female
20	21	Babby John	Four	69	female
21	22	Reggid	Seven	55	female
22	23	Herod	Eight	79	male
23	24	Tiddy Now	Seven	78	male
24	25	Giff Tow	Seven	88	male
25	26	Crelea	Seven	79	male
26	27	Big Nose	Three	81	female
27	28	Rojj Base	Seven	86	female
28	29	Tess Played	Seven	55	male
29	30	Reppy Red	Six	79	female
30	31	Marry Toeey	Four	88	male
31	32	Binn Rott	Seven	90	female
32	33	Kenn Rein	Six	96	female
33	34	Gain Toe	Seven	69	male
34	35	Rows Noump	Six	88	female

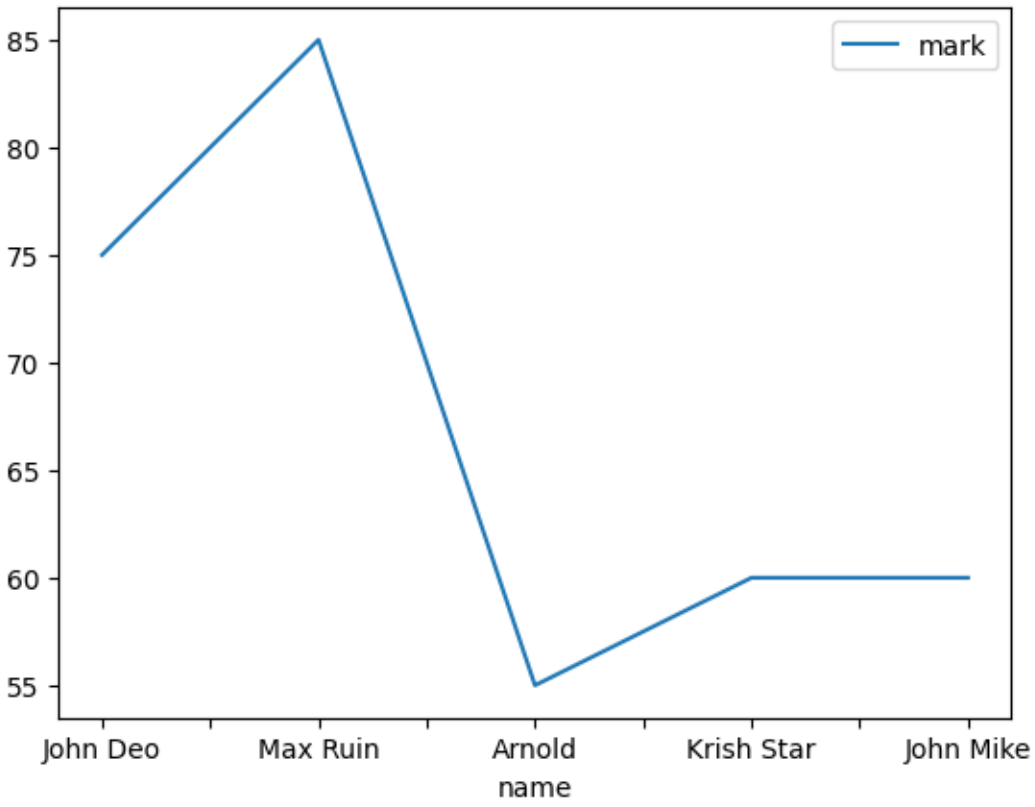
[16]:
```
std.plot(kind='scatter',x='name',y='mark')
```

[16]: <Axes: xlabel='name', ylabel='mark'>

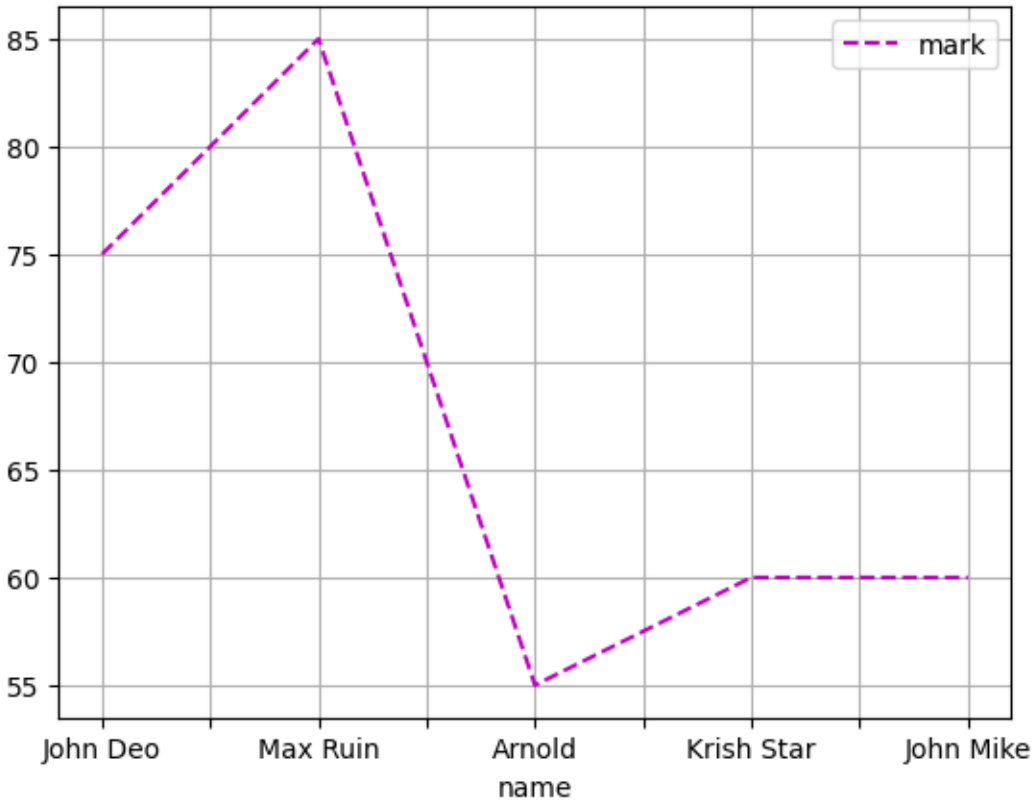


[17]:
```
std_new=std.head()
std_new.plot(x='name',y='mark')
```

[17]: <Axes: xlabel='name'>



[18]:
```
std_new.plot(x='name',y='mark',linestyle='dashed',color='m')
plt.grid()
```


mark
85
80
75
70
65
60
55
John Deo
Max Ruin
Arnold
Krish Star
John Mike
name