

```
In [1]: 1 import pandas as pd
        2 d=pd.read_csv("data.csv")
        3 d
```

Out[1]:

	Name	Subject1	Subject2	Subject3	Subject4	Subject5	Subject6	Subject7	Subject8	Su
0	Aruna	83	92	87	97	88	93	86	89	
1	Bhanu	100	82	87	100	92	93	81	87	
2	Chandrika	88	87	94	91	82	85	88	89	
3	Dhana	82	84	96	86	80	89	86	80	
4	Elisha	95	91	90	98	87	99	88	88	
5	Farha	95	93	99	98	92	98	94	100	
6	Ganga	94	93	92	83	83	88	81	92	
7	Hanuma	96	94	92	94	88	87	84	97	
8	Ishu	87	96	98	81	89	91	91	91	
9	Janaki	88	97	97	96	100	93	80	90	

```
In [10]: 1 print(d.mean()) # mean of each column
```

```
Subject1    90.8
Subject2    90.9
Subject3    93.2
Subject4    92.4
Subject5    88.1
Subject6    91.6
Subject7    85.9
Subject8    90.3
Subject9    90.9
Subject10   94.1
dtype: float64
```

```
In [12]: 1 print(d.var())
        2 # variance of each column
```

```
Subject1    36.177778
Subject2    24.988889
Subject3    18.844444
Subject4    46.488889
Subject5    33.655556
Subject6    20.711111
Subject7    20.766667
Subject8    29.788889
Subject9    48.544444
Subject10   26.322222
dtype: float64
```

```
In [9]: 1 print(d.std())
        2 # standard deviation
```

```

Subject1    6.014797
Subject2    4.998889
Subject3    4.341019
Subject4    6.818276
Subject5    5.801341
Subject6    4.550946
Subject7    4.557046
Subject8    5.457920
Subject9    6.967384

```

In [50]:

```

1 print(d.mode())
2 #finding mode

```

	Name	Subject1	Subject2	Subject3	Subject4	Subject5	Subject6
0	Aruna	88.0	93.0	87.0	98.0	88.0	93.0
1	Bhanu	95.0	NaN	92.0	NaN	92.0	NaN
2	Chandrika	NaN	NaN	NaN	NaN	NaN	NaN
3	Dhana	NaN	NaN	NaN	NaN	NaN	NaN
4	Elisha	NaN	NaN	NaN	NaN	NaN	NaN
5	Farha	NaN	NaN	NaN	NaN	NaN	NaN
6	Ganga	NaN	NaN	NaN	NaN	NaN	NaN
7	Hanuma	NaN	NaN	NaN	NaN	NaN	NaN
8	Ishu	NaN	NaN	NaN	NaN	NaN	NaN
9	Janaki	NaN	NaN	NaN	NaN	NaN	NaN

	Subject7	Subject8	Subject9	Subject10
0	81.0	89.0	100.0	99.0
1	86.0	NaN	NaN	NaN
2	88.0	NaN	NaN	NaN
3	NaN	NaN	NaN	NaN
4	NaN	NaN	NaN	NaN
5	NaN	NaN	NaN	NaN
6	NaN	NaN	NaN	NaN
7	NaN	NaN	NaN	NaN
8	NaN	NaN	NaN	NaN
9	NaN	NaN	NaN	NaN

In [14]:

```

1 import matplotlib.pyplot as plt

```

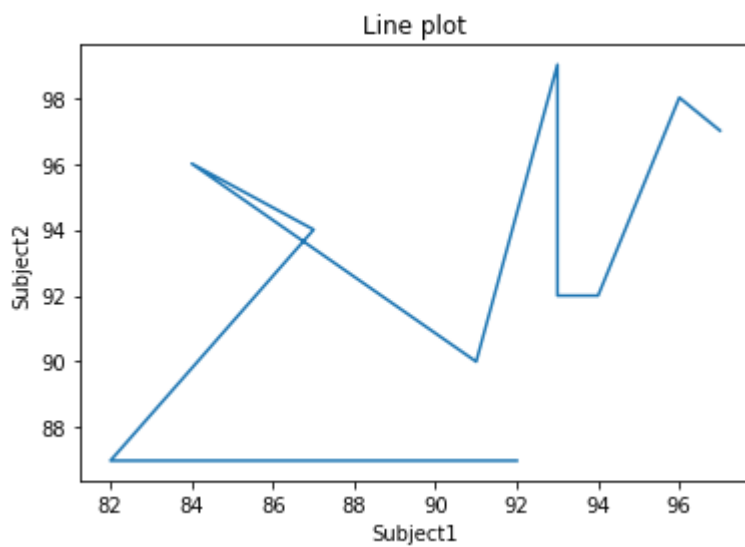
In [49]:

```

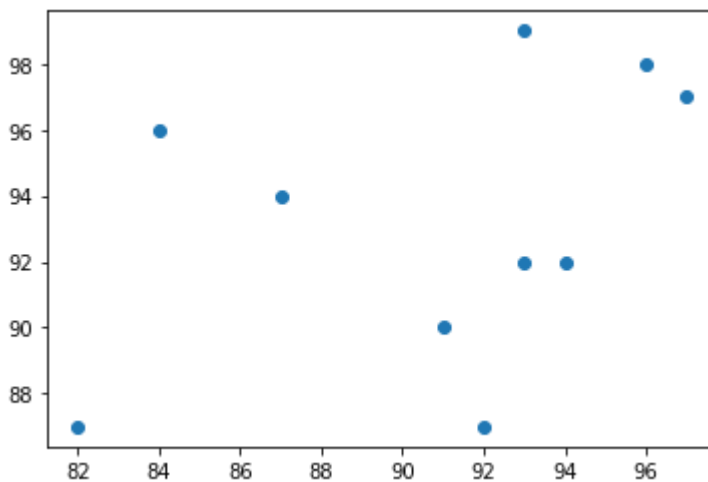
1 e,f=d['Subject2'],d['Subject3']
2 print(e,f)
3 plt.title("Line plot")
4 plt.xlabel("Subject1")
5 plt.ylabel("Subject2")
6 plt.plot(e,f)

```

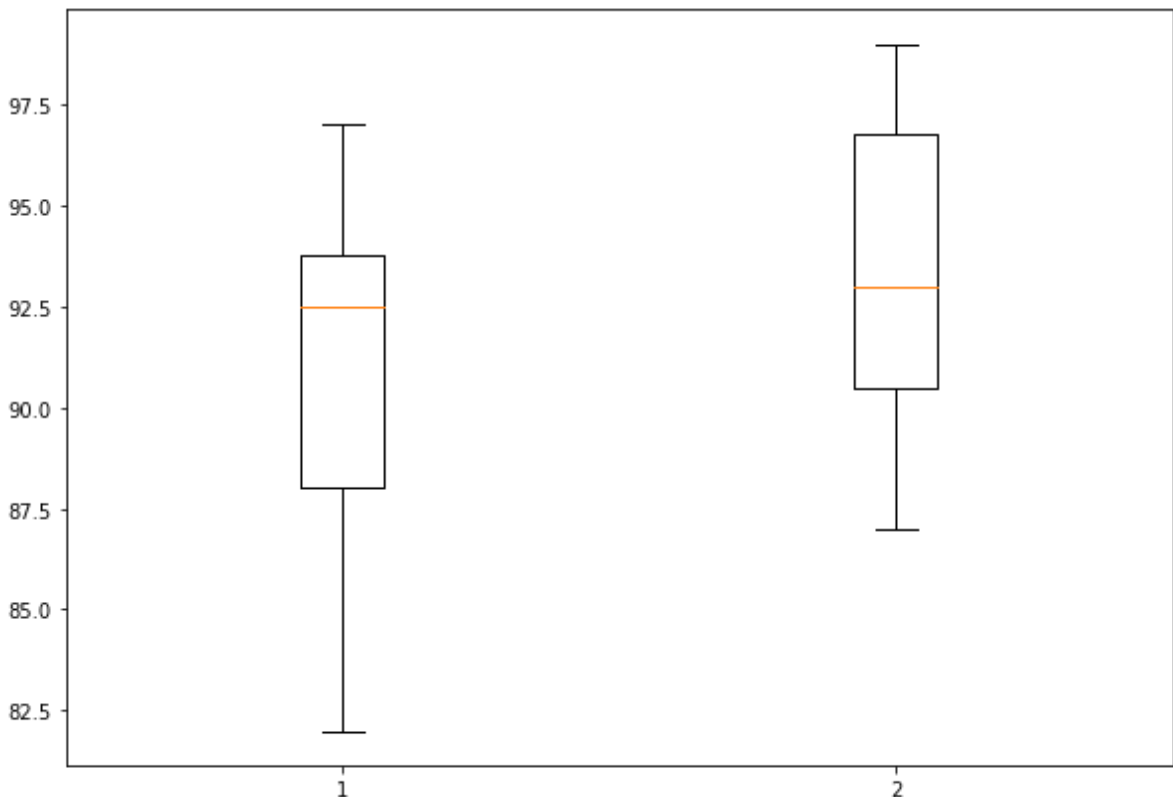
```
7 plt.show()
8 #creating lineplot
0 92
1 82
2 87
3 84
4 91
5 93
6 93
7 94
8 96
9 97
Name: Subject2, dtype: int64 0      87
1      87
2      94
3      96
4      90
5      99
6      92
7      92
8      98
9      97
Name: Subject3, dtype: int64
```



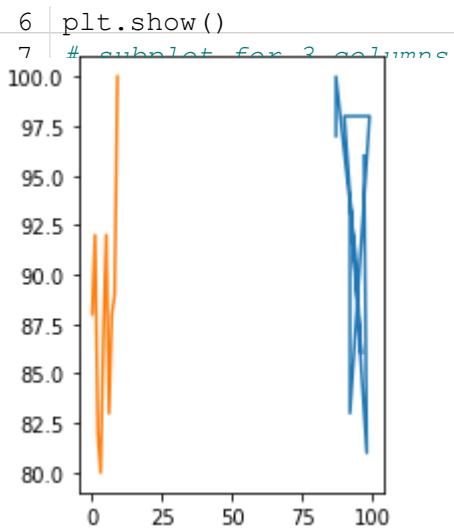
```
In [48]: 1 plt.scatter(e,f)
          2 plt.show()
          3 # scatterplot
```



```
In [46]: 1 # plotting boxplot
          2 data=(e,f)
          3 fig=plt.figure(figsize=(10,7))
          4 plt.boxplot(data)
          5 plt.show()
          6 # boxplot
```



```
In [45]: 1 #creating subplot
          2 g,h,i=d['Subject3'],d['Subject4'],d['Subject5']
          3 #print(g,h,i)
          4 plt.subplot(1,2,1)
          5 plt.plot(g,h,i)
```



In []:

1