

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
ages=[65,85,26,35,69,89,59,23,14,52,64,21,32,66,23,50,52]
ages
```

```
Out[1]: [65, 85, 26, 35, 69, 89, 59, 23, 14, 52, 64, 21, 32, 66, 23, 50, 52]
```

```
In [2]: ages = pd.DataFrame(ages)
ages
```

```
Out[2]:
```

|    | 0  |
|----|----|
| 0  | 65 |
| 1  | 85 |
| 2  | 26 |
| 3  | 35 |
| 4  | 69 |
| 5  | 89 |
| 6  | 59 |
| 7  | 23 |
| 8  | 14 |
| 9  | 52 |
| 10 | 64 |
| 11 | 21 |
| 12 | 32 |
| 13 | 66 |
| 14 | 23 |
| 15 | 50 |
| 16 | 52 |

```
In [3]: ages.info()

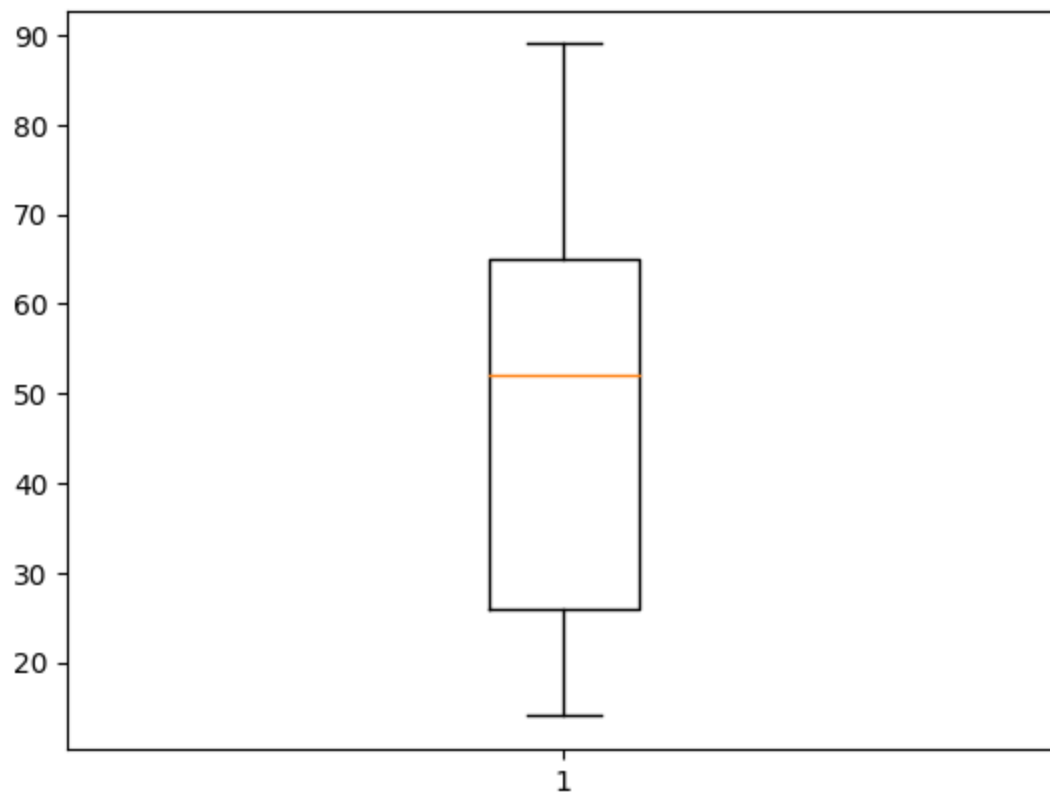
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 17 entries, 0 to 16
Data columns (total 1 columns):
#   Column  Non-Null Count  Dtype  
---  -
0    0       17 non-null      int64  
dtypes: int64(1)
memory usage: 268.0 bytes
```

```
In [4]: ages.describe()
```

Out[4]:

|              | 0         |
|--------------|-----------|
| <b>count</b> | 17.000000 |
| <b>mean</b>  | 48.529412 |
| <b>std</b>   | 23.124980 |
| <b>min</b>   | 14.000000 |
| <b>25%</b>   | 26.000000 |
| <b>50%</b>   | 52.000000 |
| <b>75%</b>   | 65.000000 |
| <b>max</b>   | 89.000000 |

```
In [5]: plt.boxplot(ages)
plt.show()
```



```
In [6]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

x1 = np.random.randint(0,10,6)
y1 = np.random.randint(20,100,6)
x1
```

Out[6]: array([7, 3, 1, 1, 9, 5])

```
In [7]: y1
```

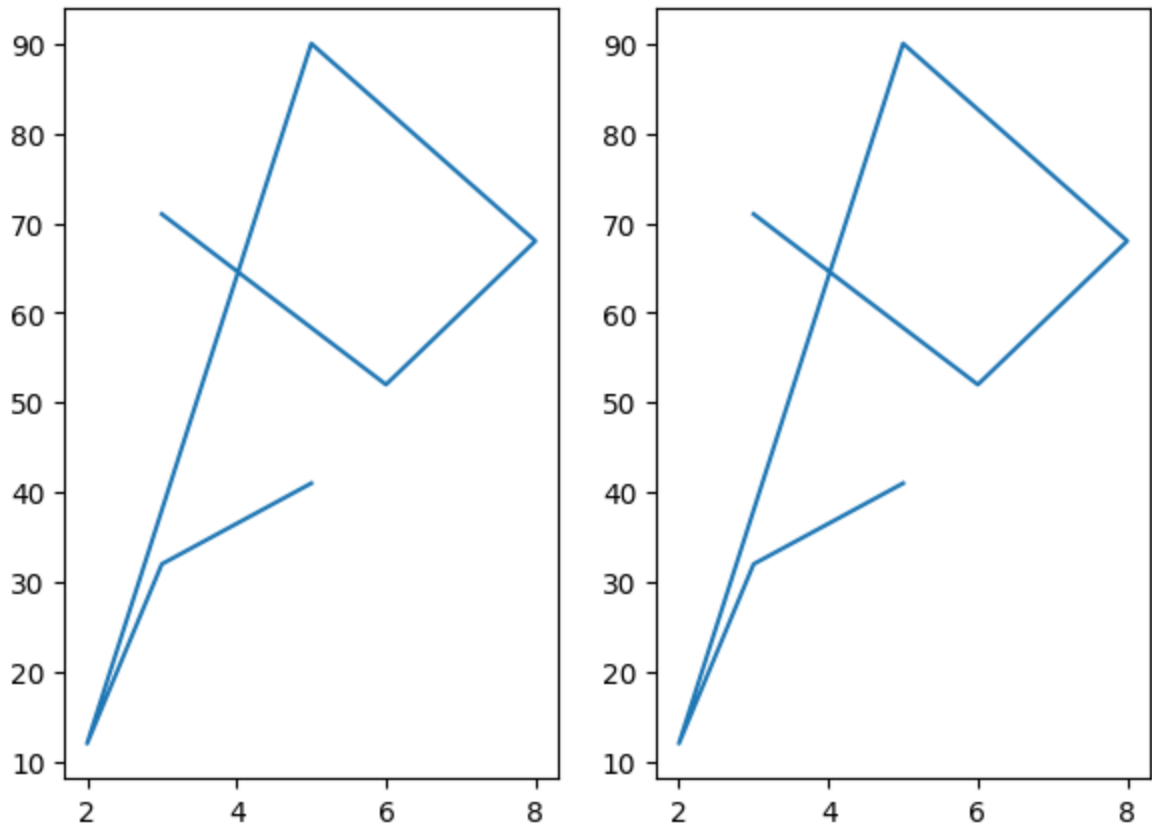
Out[7]: array([37, 31, 57, 43, 77, 36])

```
In [8]: x1 = [3,6,8,5,2,3,5]
y1 = [71,52,68,90,12,32,41]
plt.figure(figsize=(7,5))

plt.subplot(1,2,2)
plt.plot(x1,y1)

plt.subplot(1,2,1)
plt.plot(x1,y1)

plt.show()
```



```
In [9]: import matplotlib  
print(matplotlib.__version__)
```

3.7.3