```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from google.colab import files
uploaded=files.upload()
```

Choose Files No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.

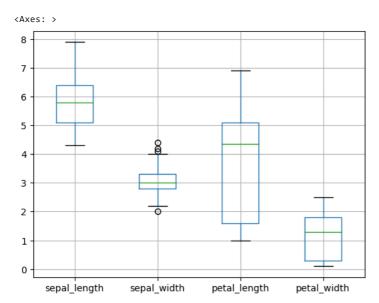
Saving Tris (1) csy to Tris (1) (1) csy

dataset=pd.read_csv('Iris (1).csv')
print(dataset)

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	Iris-setosa
1	4.9	3.0	1.4	0.2	Iris-setosa
2	4.7	3.2	1.3	0.2	Iris-setosa
3	4.6	3.1	1.5	0.2	Iris-setosa
4	5.0	3.6	1.4	0.2	Iris-setosa
145	6.7	3.0	5.2	2.3	Iris-virginica
146	6.3	2.5	5.0	1.9	Iris-virginica
147	6.5	3.0	5.2	2.0	Iris-virginica
148	6.2	3.4	5.4	2.3	Iris-virginica
149	5.9	3.0	5.1	1.8	Iris-virginica

[150 rows x 5 columns]

dataset.boxplot()



```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from google.colab import files
uploaded=files.upload()
```

Choose Files No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.

Caving cample data cev to cample data cev

ds=pd.read_csv('sample_data.csv')

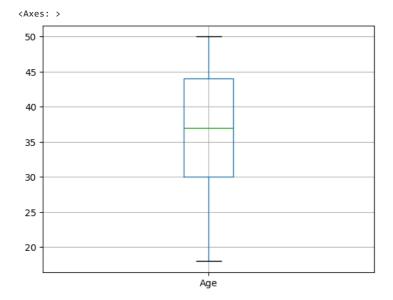
ds.head()

	Country	Age	Salary	Purchased
0	France	44.0	72000.0	No
1	Spain	27.0	48000.0	Yes
2	Germany	30.0	54000.0	No
3	Spain	38.0	61000.0	No
4	Nigeria	18.0	15000.0	No

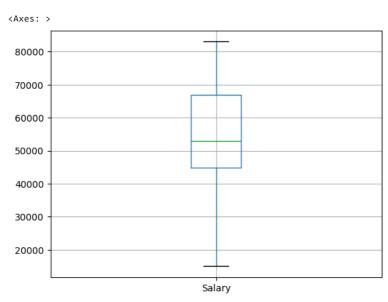
ds.shape

(29, 4)

ds.boxplot("Age")



ds.boxplot("Salary")



ds.describe()

	Age	Salary
count	27.000000	28.000000
mean	36.925926	53642.857143
std	8.757089	19216.532785
min	18.000000	15000.000000
25%	30.000000	44750.000000
50%	37.000000	53000.000000
75%	44.000000	67000.000000
max	50.000000	83000.000000

dn=ds.isnull().sum()

```
NameError
                                               Traceback (most recent call last)
     cinvthon-input-1-8982da57h083> in <cell line: 1>()
print(dn)
     Country
                  2
     Age
     Salary
                  1
     Purchased
                  1
     dtype: int64
ds['Country'].fillna(99,inplace=True)
ds.head(15)
         Country Age Salary Purchased
           France 44.0 72000.0
      1
            Spain 27.0 48000.0
                                       Yes
      2 Germany 30.0 54000.0
                                       No
                       61000.0
      3
            Spain 38.0
                                       No
      4
                       15000.0
           Nigeria 18.0
                                       No
         Germany 40.0
      6
           France 35.0 58000.0
                                       Yes
            Spain NaN 52000.0
                                       No
           France 48.0 79000.0
      8
                                       Yes
         Germany 50.0 83000.0
      9
                                       No
     10
           France 37.0 67000.0
           Nigeria 50.0 60000.0
     11
                                       Yes
     12
           France 22.0
                       30000.0
                                       No
     13
              99 44.0 45000.0
                                       Yes
           France 47.0 78000.0
                                      NaN
print("fill the missing values")
median=ds["Age"].median()
print(median)
     fill the missing values
     37.0
ds["Age"].fillna(99, inplace=True)
print(ds)
         Country
                  Age
                         Salary Purchased
     0
         France 44.0
                       72000.0
                                       No
                        48000.0
          Spain 27.0
     1
                                      Yes
                        54000.0
        Germany
                  30.0
                                       No
                        61000.0
     3
          Spain
                 38.0
                                       Nο
     4
        Nigeria
                 18.0
                        15000.0
                                       No
     5
        Germany
                  40.0
                            NaN
                                      Yes
     6
          France
                  35.0
                        58000.0
                                      Yes
                 99.0
                        52000.0
          Spain
     8
                  48.0
                        79000.0
          France
                                      Yes
     9
        Germany
                  50.0
                        83000.0
                                       No
     10
         France
                  37.0
                        67000.0
                                      Yes
                        60000.0
        Nigeria
                  50.0
     11
                                      Yes
                        30000.0
     12
         France
                 22.0
                                       No
                        45000.0
     13
             99
                 44.0
                                      Yes
         France
                        78000.0
     14
                 47.0
                                      NaN
     15
        Nigeria
                  35.0
                        43000.0
                                      Yes
     16
           Spain
                 34.0
                        44000.0
                                      Yes
     17
           {\sf Spain}
                 27.0
                        48000.0
                                      Yes
          Spain
                 33.0
                        48000.0
     18
                                      Yes
        Nigeria
                  29.0
                        77000.0
     19
                                       Yes
     20
          Spain
                 99.0
                        57000.0
                                       Yes
     21
          France
                  44.0
                        48000.0
                                      Yes
     22
        Germany
                  50.0
                        83000.0
                                       No
                        67000.0
     23
         France
                  37.0
                                      Yes
     24
          France
                  37.0
                        23000.0
                                      Yes
     25
        Germany
                 45.0
                        50000.0
                                       No
```

Yes

26

France

37.0

67000.0

27 Nigeria 30.0 30000.0 Yes 28 Nigeria 29.0 15000.0 No