Load Libraries

```
import pandas
import matplotlib.pyplot as plt
```

Load Dataset

```
url = "https://archive.ics.uci.edu/ml/machine-learning-databases/iris/iris.data"
names = ['sepal-length', 'sepal-width', 'petal-length', 'petal-width', 'class']
dataset = pandas.read_csv(url, names=names)
```

Shape

```
print(dataset.shape)
(150, 5)
```

Head

```
print(dataset.head(20))
```

₽	0 1 2 3 4 5 6 7 8 9 10	sepal-length 5.1 4.9 4.7 4.6 5.0 5.4 4.6 5.0 4.4 4.9 5.4	sepal-width 3.5 3.0 3.2 3.1 3.6 3.9 3.4 2.9 3.1 3.7	petal-length	petal-width 0.2 0.2 0.2 0.2 0.2 0.4 0.3 0.2 0.2 0.1 0.2	class Iris-setosa
	11 12	4.8 4.8	3.4 3.0	1.6 1.4	0.2 0.1	Iris-setosa Iris-setosa
	13 14 15 16 17 18 19	4.3 5.8 5.7 5.4 5.1 5.7 5.1	3.0 4.0 4.4 3.9 3.5 3.8 3.8	1.1 1.2 1.5 1.3 1.4	0.1 0.2 0.4 0.4 0.3 0.3	Iris-setosa Iris-setosa Iris-setosa Iris-setosa Iris-setosa
	19	5.1	3.0	1.5	0.5	Iris-setosa

Descriptions

```
print(dataset.describe())
```

₽		sepal-length	sepal-width	petal-length	petal-width
	count	150.000000	150.000000	150.000000	150.000000
	mean	5.843333	3.054000	3.758667	1.198667
	std	0.828066	0.433594	1.764420	0.763161
	min	4.300000	2.000000	1.000000	0.100000
	25%	5.100000	2.800000	1.600000	0.300000
	50%	5.800000	3.000000	4.350000	1.300000
	75%	6.400000	3.300000	5.100000	1.800000
	max	7.900000	4.400000	6.900000	2.500000

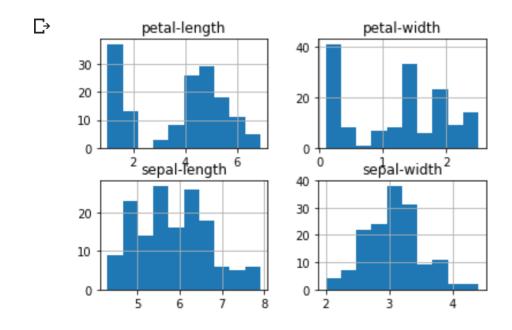
Class Distribution

print(dataset.groupby('class').size())

Class
 Iris-setosa 50
 Iris-versicolor 50
 Iris-virginica 50
 dtype: int64

Histograms

dataset.hist()
plt.show()



Box Plot

dataset.plot(kind='box', subplots=True, layout=(2,2), sharex=False, sharey=False)
plt.show()

