

```
import numpy as np
import pandas as pd

mydata=pd.read_csv('iris.csv')
```

```
mydata
```

	sepal.length	sepal.width	petal.length	petal.width	variety
0	5.1	3.5	1.4	0.2	Setosa
1	4.9	3.0	1.4	0.2	Setosa
2	4.7	3.2	1.3	0.2	Setosa
3	4.6	3.1	1.5	0.2	Setosa
4	5.0	3.6	1.4	0.2	Setosa
...
145	6.7	3.0	5.2	2.3	Virginica
146	6.3	2.5	5.0	1.9	Virginica
147	6.5	3.0	5.2	2.0	Virginica
148	6.2	3.4	5.4	2.3	Virginica
149	5.9	3.0	5.1	1.8	Virginica

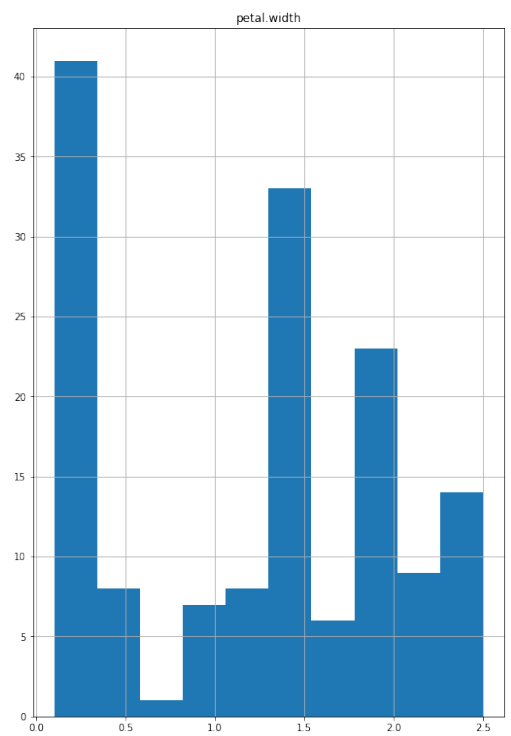
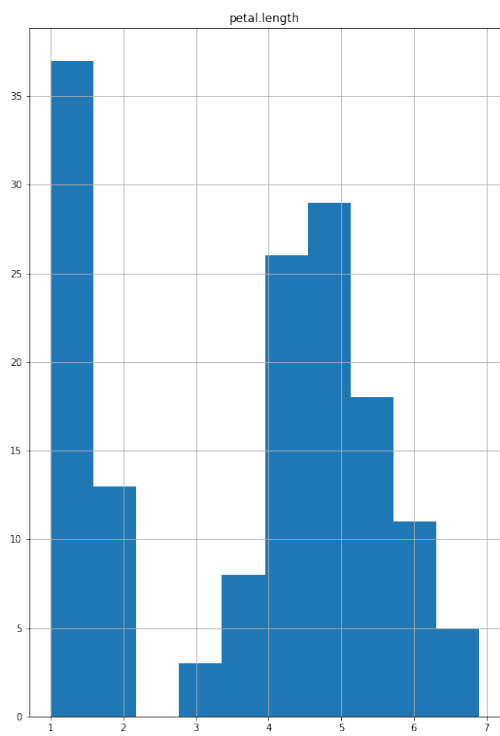
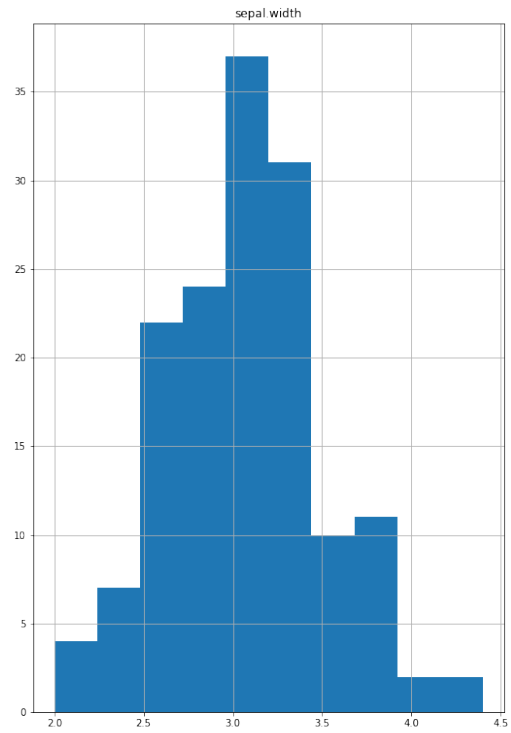
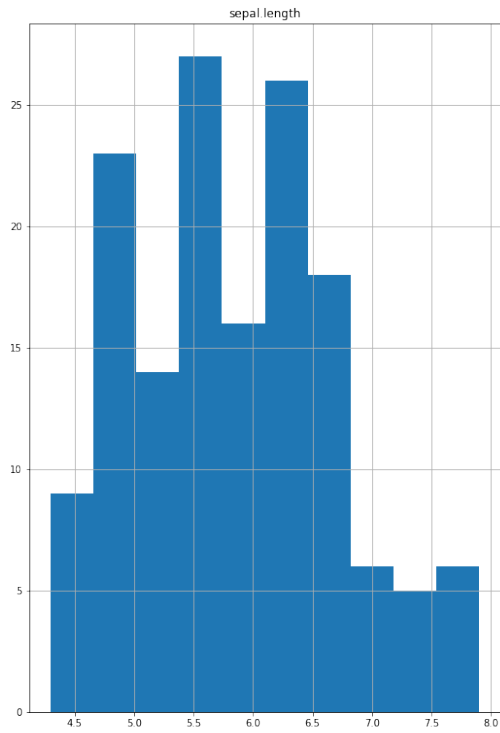
```
[150 rows x 5 columns]
```

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

```
%matplotlib inline
```

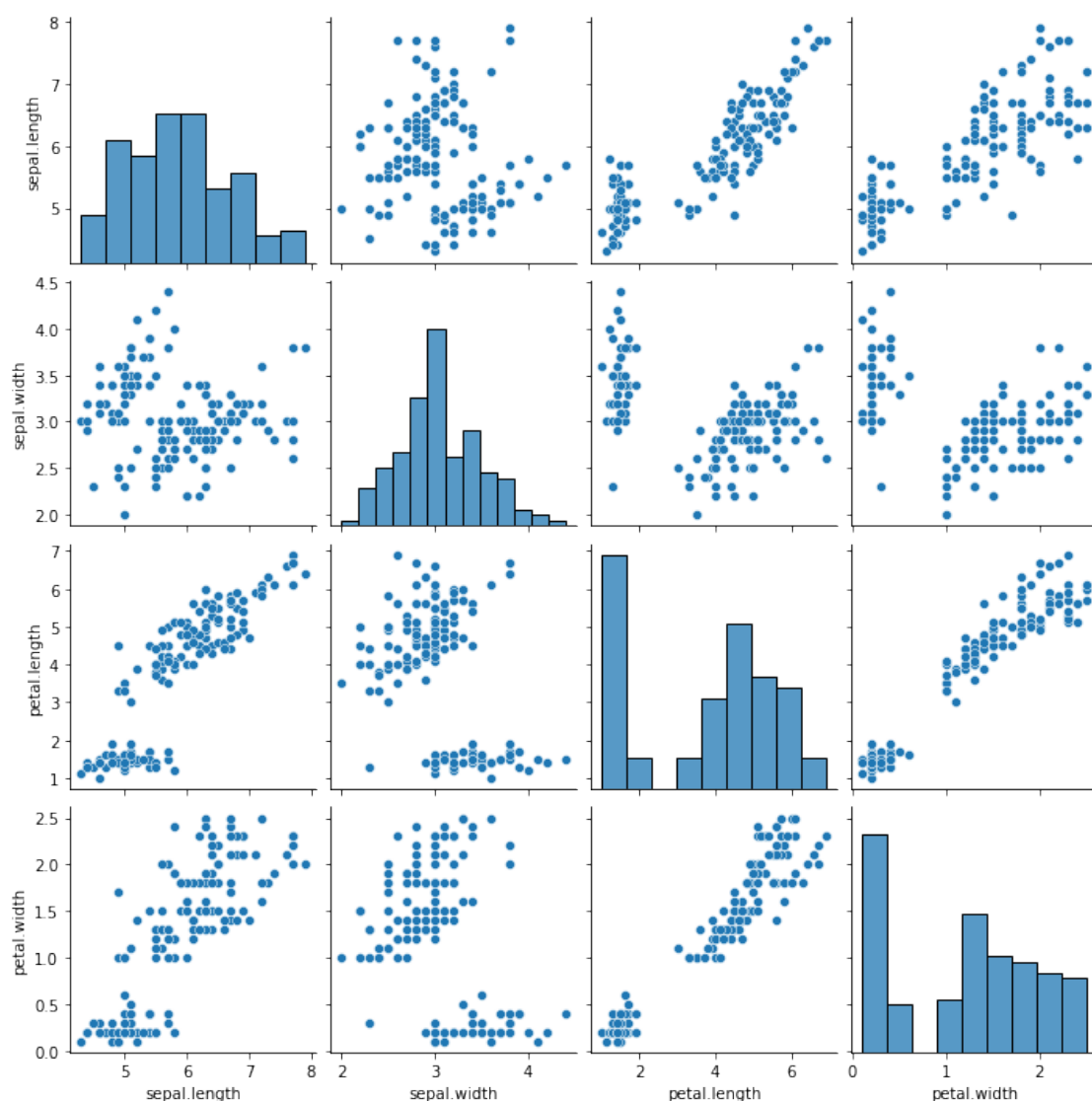
```
mydata.hist(figsize=(20,30))
```

```
array([[<AxesSubplot:title={'center':'sepal.length'}>,
        <AxesSubplot:title={'center':'sepal.width'}>],
       [<AxesSubplot:title={'center':'petal.length'}>,
        <AxesSubplot:title={'center':'petal.width'}>]], dtype=object)
```



```
import seaborn as sns
sns.pairplot(mydata)
```

<seaborn.axisgrid.PairGrid at 0x1f84d879c10>



```
mydata.corr()
```

	sepal.length	sepal.width	petal.length	petal.width
sepal.length	1.000000	-0.117570	0.871754	0.817941
sepal.width	-0.117570	1.000000	-0.428440	-0.366126
petal.length	0.871754	-0.428440	1.000000	0.962865
petal.width	0.817941	-0.366126	0.962865	1.000000

```
mydata.head()
```

	sepal.length	sepal.width	petal.length	petal.width	variety
0	5.1	3.5	1.4	0.2	Setosa
1	4.9	3.0	1.4	0.2	Setosa
2	4.7	3.2	1.3	0.2	Setosa

3	4.6	3.1	1.5	0.2	Setosa
4	5.0	3.6	1.4	0.2	Setosa

```
mydata.describe(include="all")
```

	sepal.length	sepal.width	petal.length	petal.width	
variety					
count	150.000000	150.000000	150.000000	150.000000	
150					
unique	NaN	NaN	NaN	NaN	
3					
top	NaN	NaN	NaN	NaN	
Versicolor					
freq	NaN	NaN	NaN	NaN	
50					
mean	5.843333	3.057333	3.758000	1.199333	
NaN					
std	0.828066	0.435866	1.765298	0.762238	
NaN					
min	4.300000	2.000000	1.000000	0.100000	
NaN					
25%	5.100000	2.800000	1.600000	0.300000	
NaN					
50%	5.800000	3.000000	4.350000	1.300000	
NaN					
75%	6.400000	3.300000	5.100000	1.800000	
NaN					
max	7.900000	4.400000	6.900000	2.500000	
NaN					

```
mydata.shape
```

```
(150, 5)
```

```
mydata[0:20]
```

	sepal.length	sepal.width	petal.length	petal.width	variety
0	5.1	3.5	1.4	0.2	Setosa
1	4.9	3.0	1.4	0.2	Setosa
2	4.7	3.2	1.3	0.2	Setosa
3	4.6	3.1	1.5	0.2	Setosa
4	5.0	3.6	1.4	0.2	Setosa
5	5.4	3.9	1.7	0.4	Setosa
6	4.6	3.4	1.4	0.3	Setosa
7	5.0	3.4	1.5	0.2	Setosa
8	4.4	2.9	1.4	0.2	Setosa
9	4.9	3.1	1.5	0.1	Setosa
10	5.4	3.7	1.5	0.2	Setosa
11	4.8	3.4	1.6	0.2	Setosa
12	4.8	3.0	1.4	0.1	Setosa
13	4.3	3.0	1.1	0.1	Setosa

14	5.8	4.0	1.2	0.2	Setosa
15	5.7	4.4	1.5	0.4	Setosa
16	5.4	3.9	1.3	0.4	Setosa
17	5.1	3.5	1.4	0.3	Setosa
18	5.7	3.8	1.7	0.3	Setosa
19	5.1	3.8	1.5	0.3	Setosa