



```
In [1]: import pandas as pd
import matplotlib.pyplot as plt
data=pd.read_csv(r"C:\Users\THARUNREDDY\Desktop\dataset\iris_mpg.csv")
data.columns=['sepal length','sepal width','petal length','petak width','cla
data.head()
from pandas.api.types import is_numeric_dtype
for col in data.columns:
    if is_numeric_dtype(data[col]):
        print('%s'%(col))
        print('\t Mean=%.2f'%data[col].mean())
        print('\t Standard Deviation=%.2f'%data[col].std())
        print('\t Minimum=%.2f'%data[col].min())
        print('\t Maximum=%.2f'%data[col].max())
    data['class'].value_counts()
    data.describe(include='all')
    print('covariance')
    data.cov()
%matplotlib inline
data['sepal length'].hist(bins=8)
data.boxplot()
```

sepal length

```
Mean=5.85
Standard Deviation=0.82
Minimum=4.30
Maximum=7.90
```

covariance

C:\Users\THARUNREDDY\AppData\Local\Temp\ipykernel\_11596\4128093147.py:17:  
FutureWarning: The default value of numeric\_only in DataFrame.cov is depre  
cated. In a future version, it will default to False. Select only valid co  
lums or specify the value of numeric\_only to silence this warning.

```
data.cov()
```

sepal width

```
Mean=3.05
Standard Deviation=0.42
Minimum=2.00
Maximum=4.20
```

covariance

petal length

```
Mean=3.82
Standard Deviation=1.74
Minimum=1.00
Maximum=6.90
```

covariance

C:\Users\THARUNREDDY\AppData\Local\Temp\ipykernel\_11596\4128093147.py:17:  
FutureWarning: The default value of numeric\_only in DataFrame.cov is depre  
cated. In a future version, it will default to False. Select only valid co  
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```
data.cov()
```

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FutureWarning: The default value of numeric\_only in DataFrame.cov is depre  
cated. In a future version, it will default to False. Select only valid co  
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```
data.cov()
```

petak width

Mean=1.20

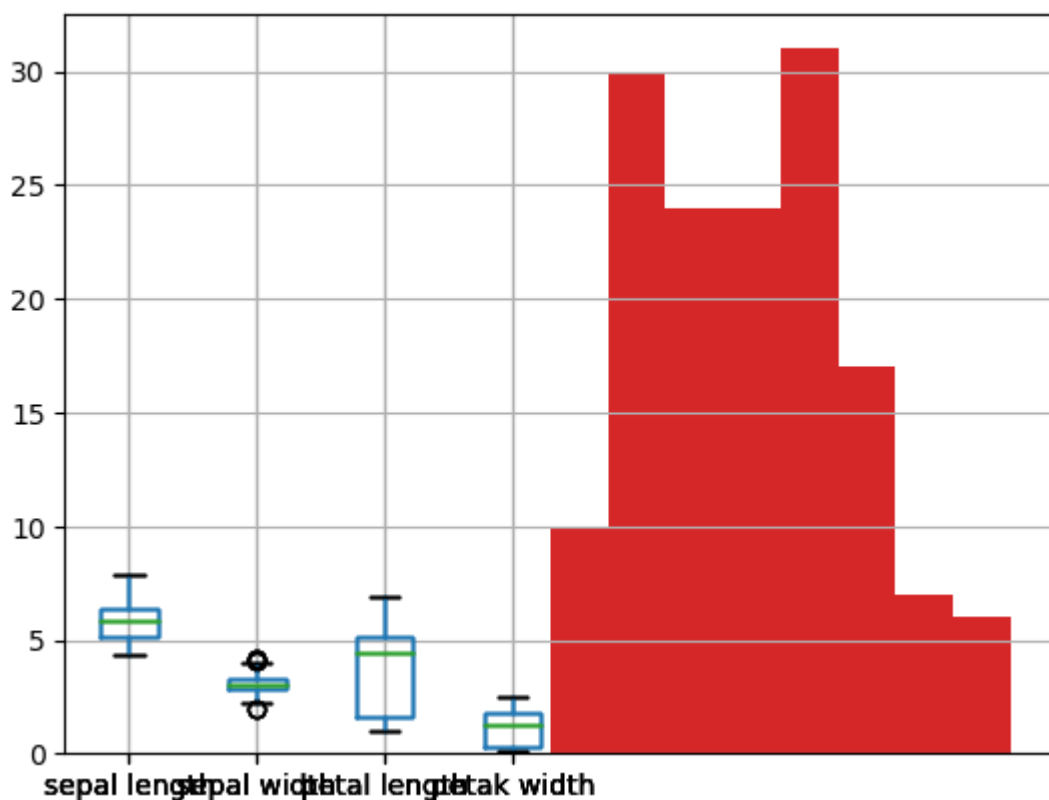
Standard Deviation=0.76

Minimum=0.10

Maximum=2.50

covariance

```
C:\Users\THARUNREDDY\AppData\Local\Temp\ipykernel_11596\4128093147.py:17:  
FutureWarning: The default value of numeric_only in DataFrame.cov is depre-  
cated. In a future version, it will default to False. Select only valid co-  
lums or specify the value of numeric_only to silence this warning.  
data.cov()
```



In [ ]: