In [1]:
```
import pandas as pd
import numpy as num
import seaborn as sns
import matplotlib.pyplot as plt
```

In [21]:
```
set=pd.read_csv('Iris .csv')
set.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 6 columns):
 #   Column         Non-Null Count  Dtype  
---  ------         --------------  -----  
 0   Id             150 non-null    int64  
 1   SepalLengthCm  150 non-null    float64
 2   SepalWidthCm   150 non-null    float64
 3   PetalLengthCm  150 non-null    float64
 4   PetalWidthCm   150 non-null    float64
 5   Species        150 non-null    object 
dtypes: float64(4), int64(1), object(1)
memory usage: 7.2+ KB
```

In [22]:
```
set.describe()
```

Out[22]:

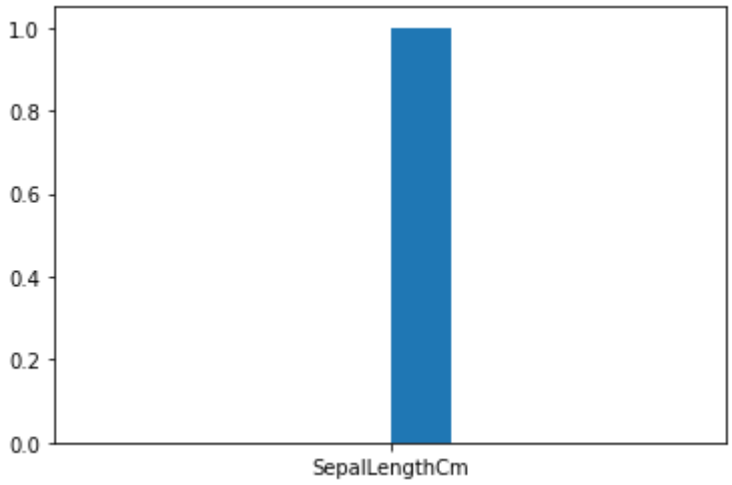
	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
count	150.000000	150.000000	150.000000	150.000000	150.000000
mean	75.500000	5.843333	3.054000	3.758667	1.198667
std	43.445368	0.828066	0.433594	1.764420	0.763161
min	1.000000	4.300000	2.000000	1.000000	0.100000
25%	38.250000	5.100000	2.800000	1.600000	0.300000
50%	75.500000	5.800000	3.000000	4.350000	1.300000
75%	112.750000	6.400000	3.300000	5.100000	1.800000
max	150.000000	7.900000	4.400000	6.900000	2.500000

In [23]:
```
coloumn=len(list(set))
coloumn
```

Out[23]:
```
6
```

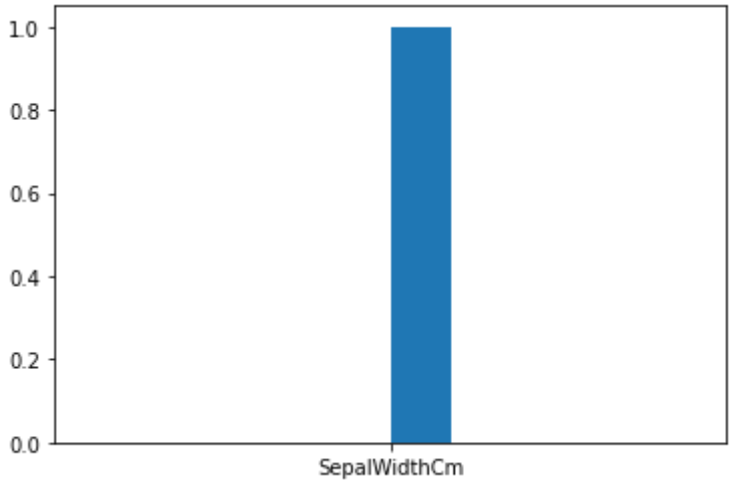
In [24]:
```
plt.hist('SepalLengthCm')
```

Out[24]:
```
(array([0., 0., 0., 0., 0., 1., 0., 0., 0., 0.]),
 array([-0.5, -0.4, -0.3, -0.2, -0.1,  0. ,  0.1,  0.2,  0.3,  0.4,  0.5]),
 <BarContainer object of 10 artists>)
```



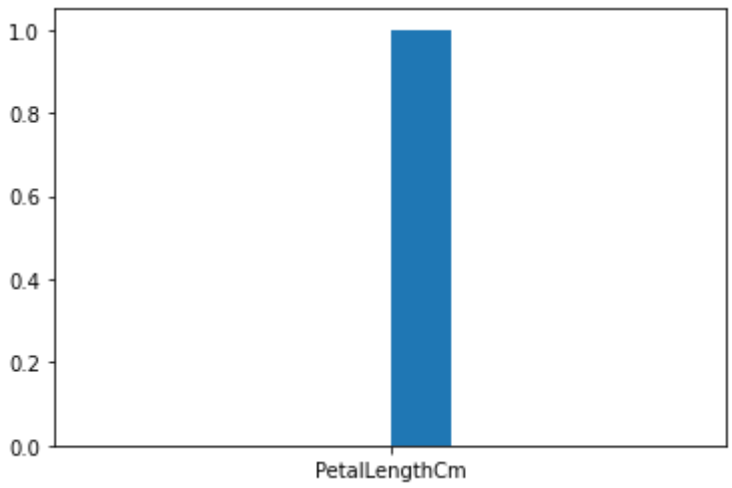
In [25]:
```
plt.hist('SepalWidthCm')
```

Out[25]:
```
(array([0., 0., 0., 0., 0., 1., 0., 0., 0., 0.]),
 array([-0.5, -0.4, -0.3, -0.2, -0.1,  0. ,  0.1,  0.2,  0.3,  0.4,  0.5]),
 <BarContainer object of 10 artists>)
```



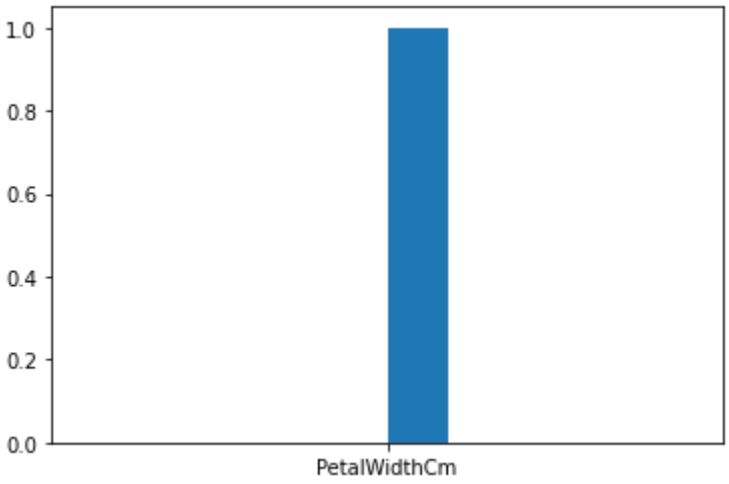
In [26]:
```
plt.hist('PetalLengthCm')
```

Out[26]:
```
(array([0., 0., 0., 0., 0., 1., 0., 0., 0., 0.]),
 array([-0.5, -0.4, -0.3, -0.2, -0.1,  0. ,  0.1,  0.2,  0.3,  0.4,  0.5]),
 <BarContainer object of 10 artists>)
```

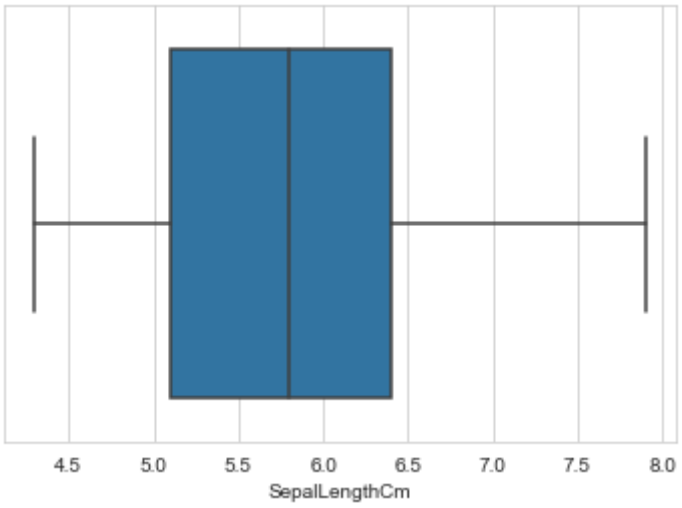


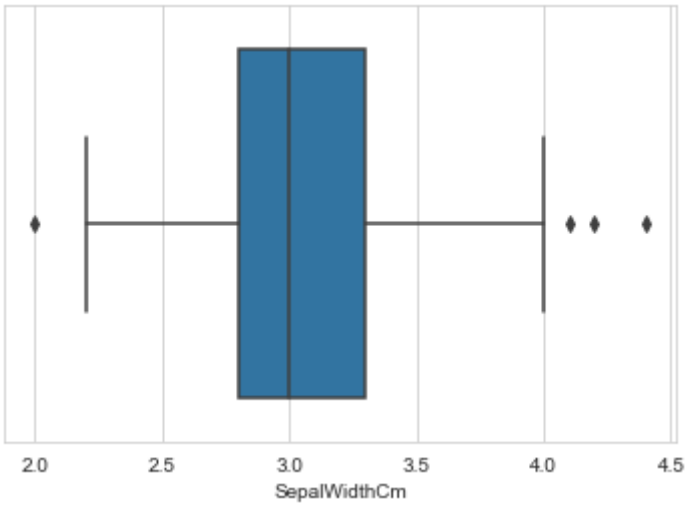
In [27]:
```
plt.hist('PetalWidthCm')
```

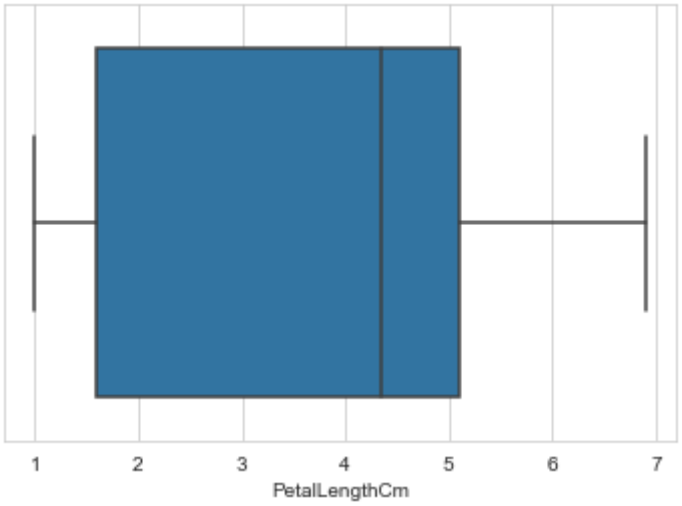
Out[27]:
```
(array([0., 0., 0., 0., 0., 1., 0., 0., 0., 0.]),
 array([-0.5, -0.4, -0.3, -0.2, -0.1,  0. ,  0.1,  0.2,  0.3,  0.4,  0.5]),
 <BarContainer object of 10 artists>)
```

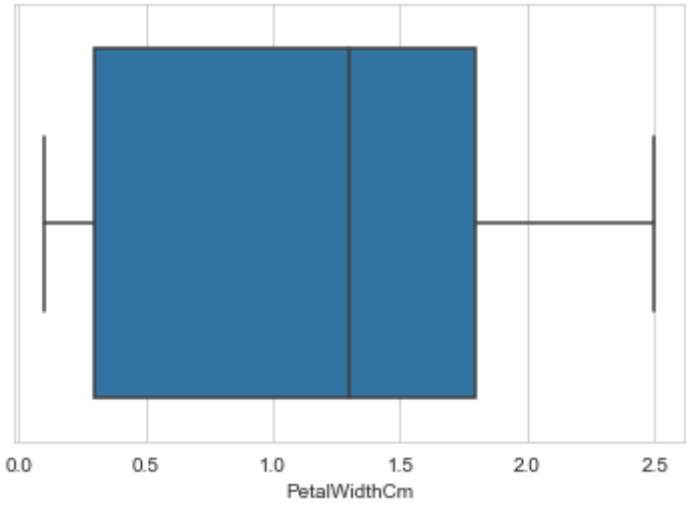


In [55]:
```
for f in('SepalLengthCm','SepalWidthCm','PetalLengthCm','PetalWidthCm'):
    sns.boxplot(x=f, data= set)
    plt.show()
```



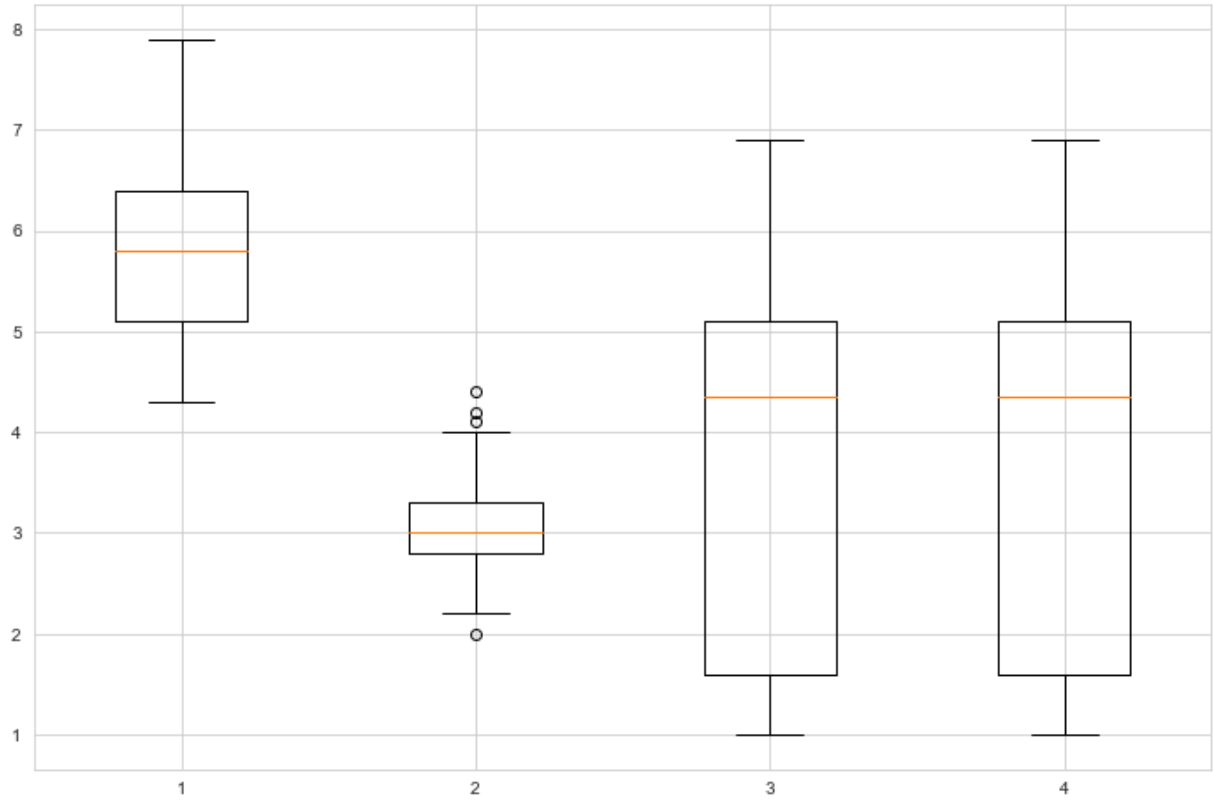






In [56]:

```
data_to_plot = [set["SepalLengthCm"],set["SepalWidthCm"],set["PetalLengthCm"],set["P
sns.set_style("whitegrid")
# Creating a figure instance
fig = plt.figure(1, figsize=(12,8))
# Creating an axes instance
ax = fig.add_subplot(111)
# Creating the boxplot
bp = ax.boxplot(data_to_plot);
```



In [ ]: