In [2]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

In [3]:
```
iris=pd.read_csv("Iris.csv")
iris
```

Out[3]:

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
0	1	5.1	3.5	1.4	0.2	Iris-setosa
1	2	4.9	3.0	1.4	0.2	Iris-setosa
2	3	4.7	3.2	1.3	0.2	Iris-setosa
3	4	4.6	3.1	1.5	0.2	Iris-setosa
4	5	5.0	3.6	1.4	0.2	Iris-setosa
...	...	...	...	...	...	...
145	146	6.7	3.0	5.2	2.3	Iris-virginica
146	147	6.3	2.5	5.0	1.9	Iris-virginica
147	148	6.5	3.0	5.2	2.0	Iris-virginica
148	149	6.2	3.4	5.4	2.3	Iris-virginica
149	150	5.9	3.0	5.1	1.8	Iris-virginica

In [4]:
```
iris.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 [5]:
```
iris.describe()
```

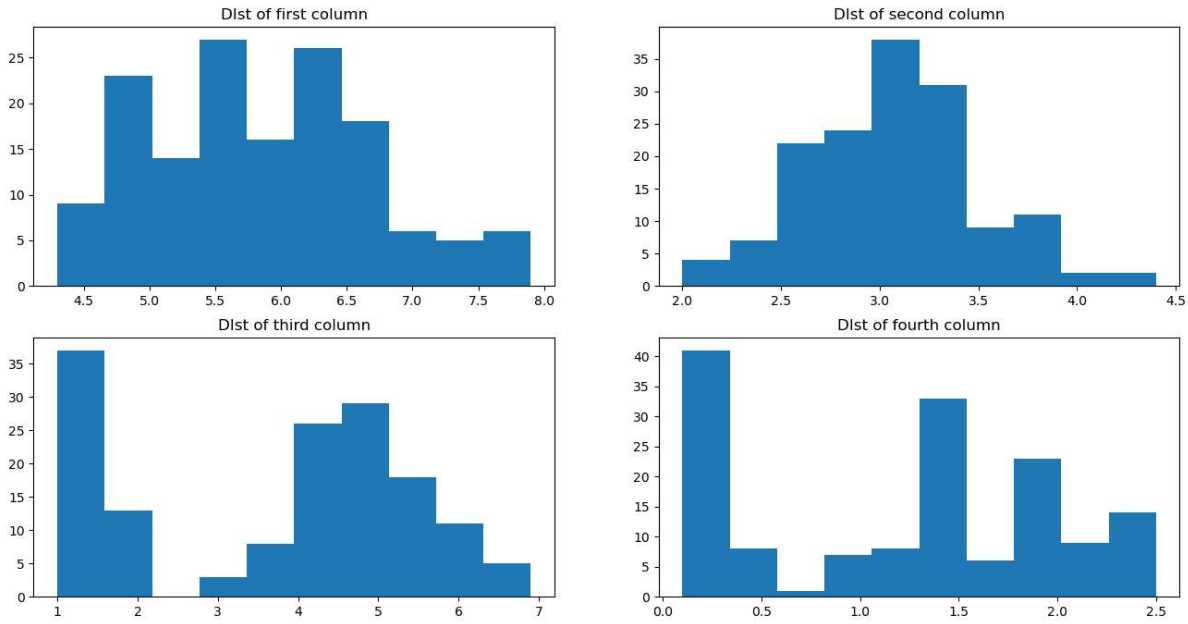
Out[5]:

	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 [6]:
```
%matplotlib inline
```

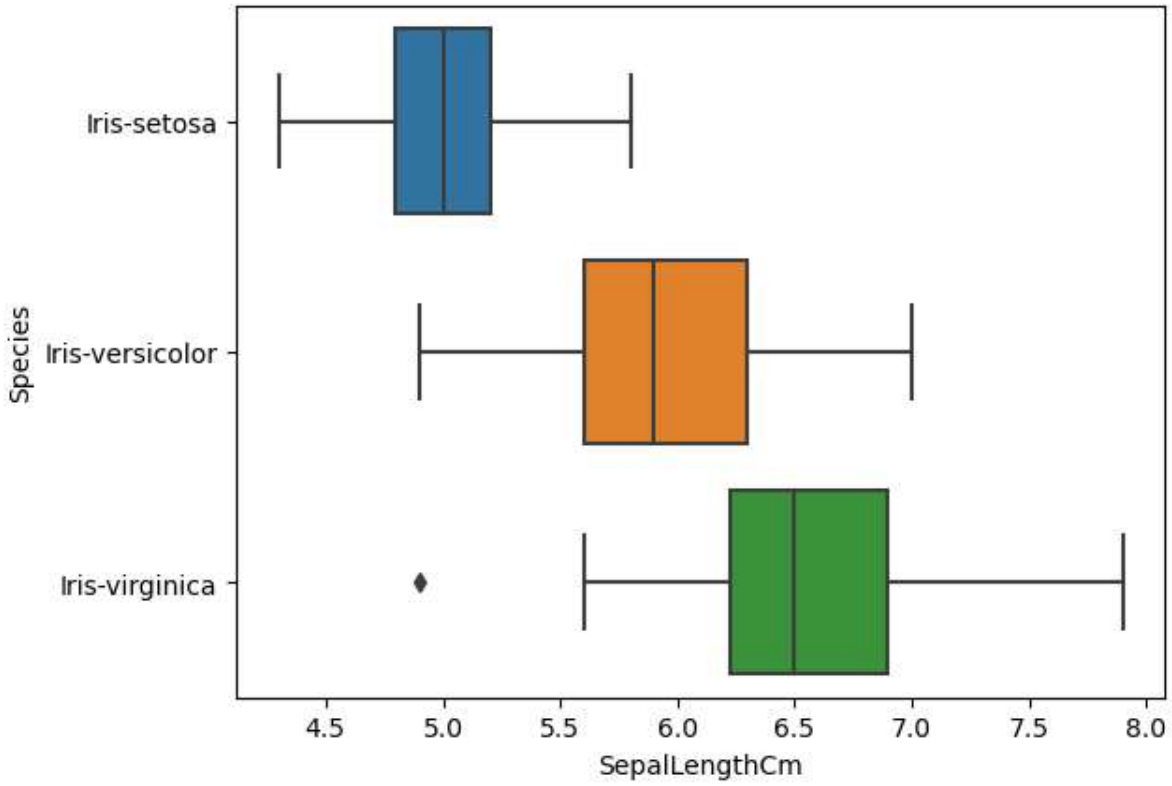
In [7]:
```
fig,axes=plt.subplots(2,2,figsize=(16,8))

axes[0,0].set_title("DIst of first column")
axes[0,0].hist(iris['SepalLengthCm'])

axes[0,1].set_title("DIst of second column")
axes[0,1].hist(iris['SepalWidthCm'])

axes[1,0].set_title("DIst of third column")
axes[1,0].hist(iris['PetalLengthCm'])

axes[1,1].set_title("DIst of fourth column")
axes[1,1].hist(iris['PetalWidthCm'])
```

Out[7]:
```
(array([41.,  8.,  1.,  7.,  8., 33.,  6., 23.,  9., 14.]),
 array([0.1 , 0.34, 0.58, 0.82, 1.06, 1.3 , 1.54, 1.78, 2.02, 2.26, 2.5 ]),
 <BarContainer object of 10 artists>)
```



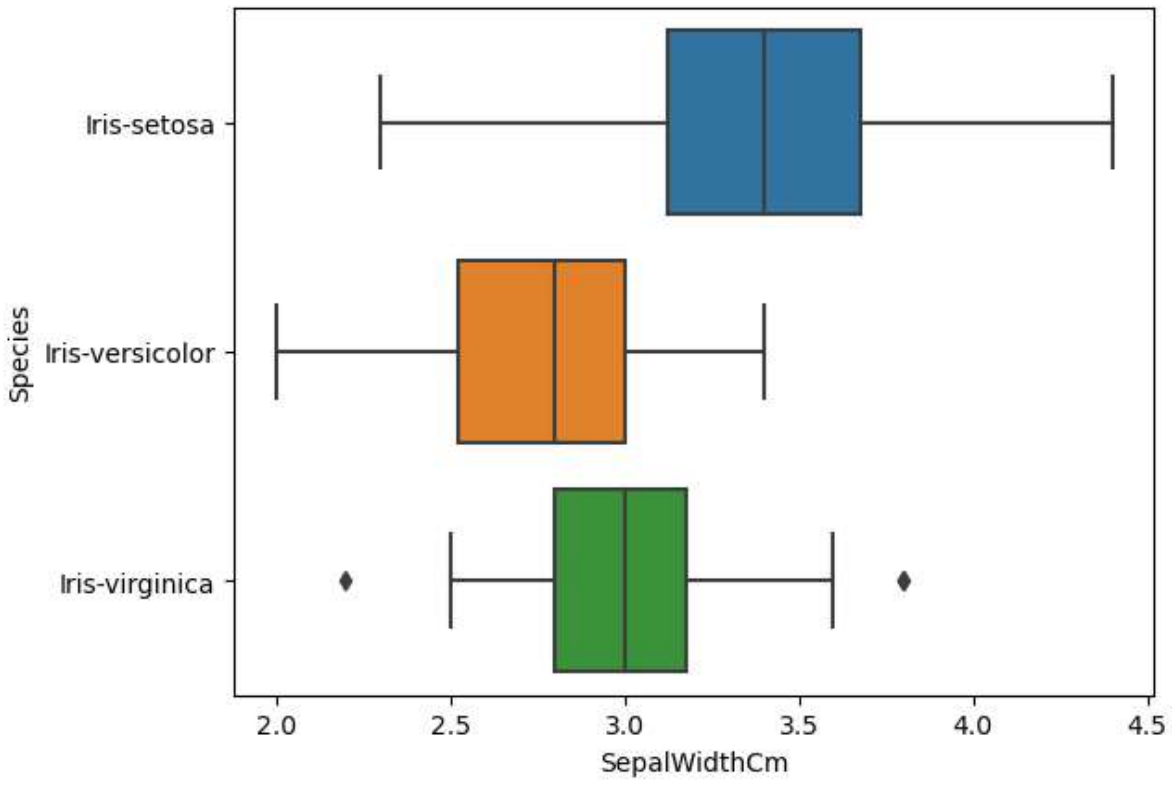
In [8]:
```
sns.boxplot(x='SepalLengthCm',y='Species',data=iris)
```

Out[8]: <Axes: xlabel='SepalLengthCm', ylabel='Species'>



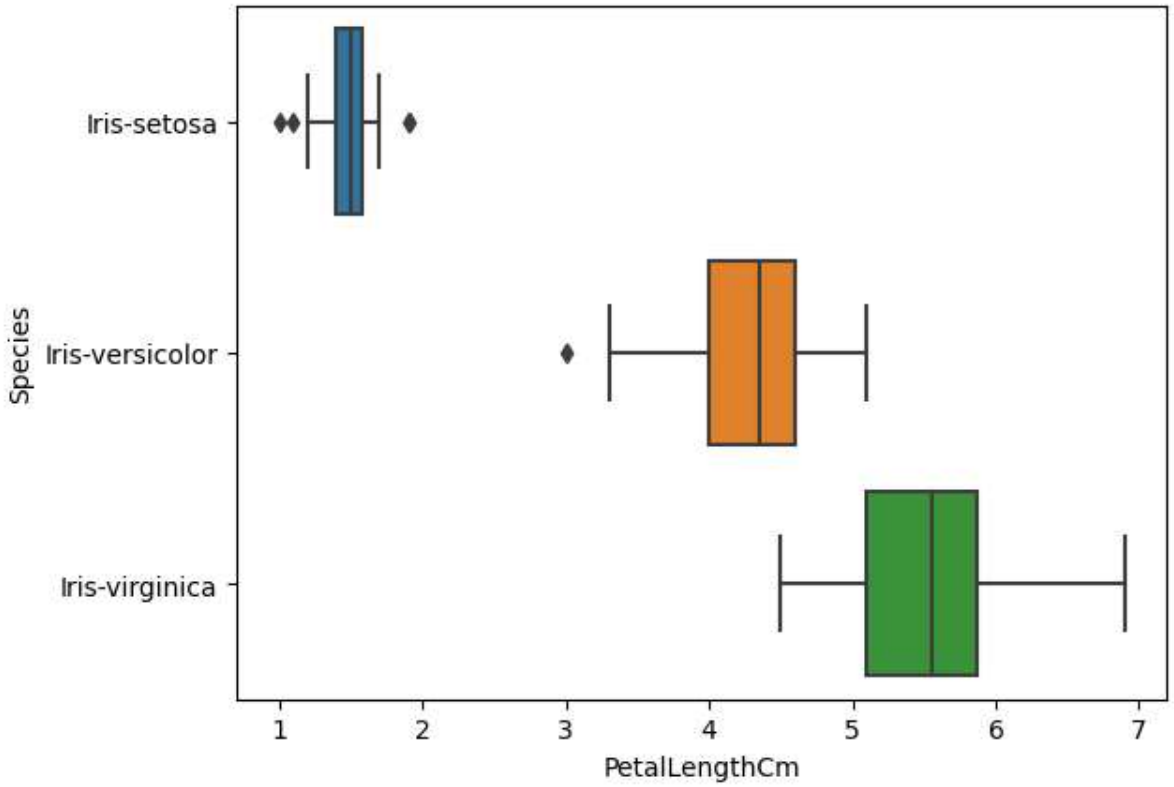
In [9]:
```
sns.boxplot(x='SepalWidthCm',y='Species',data=iris)
```

Out[9]: <Axes: xlabel='SepalWidthCm', ylabel='Species'>



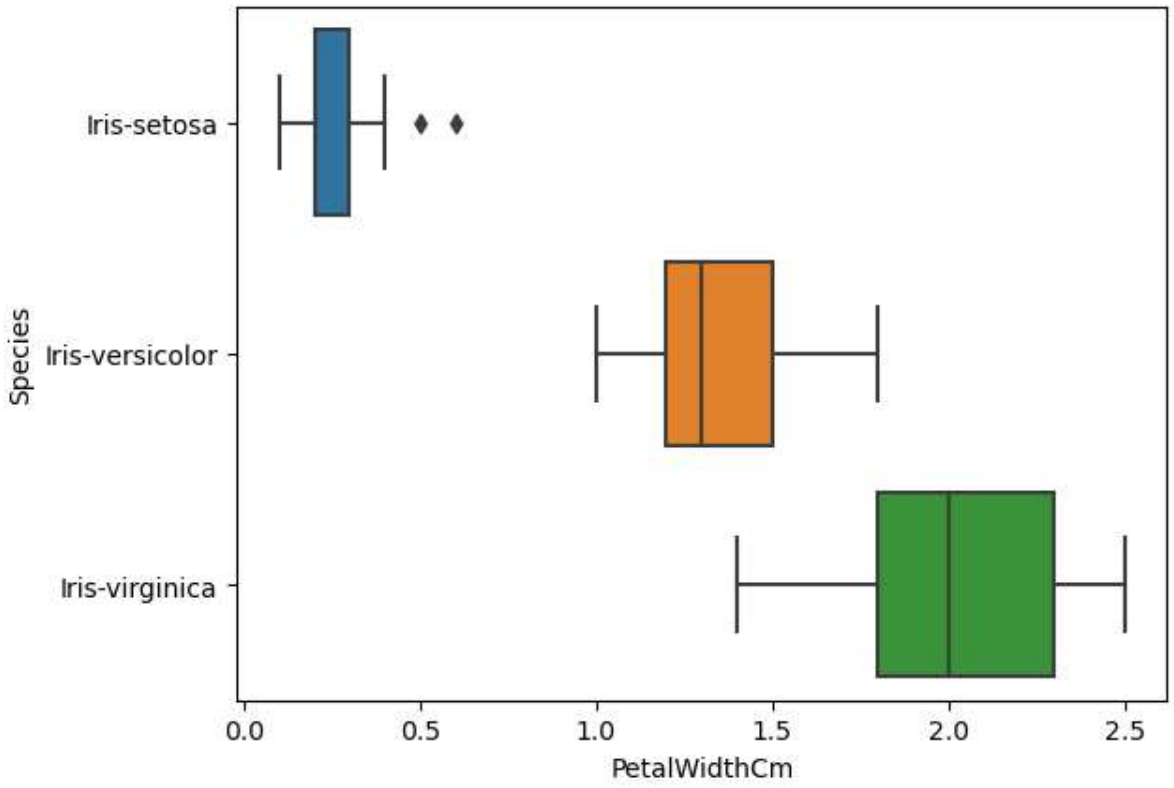
In [10]:
```
sns.boxplot(x='PetalLengthCm',y='Species',data=iris)
```

Out[10]: <Axes: xlabel='PetalLengthCm', ylabel='Species'>



In [11]:
```
sns.boxplot(x='PetalWidthCm',y='Species',data=iris)
```

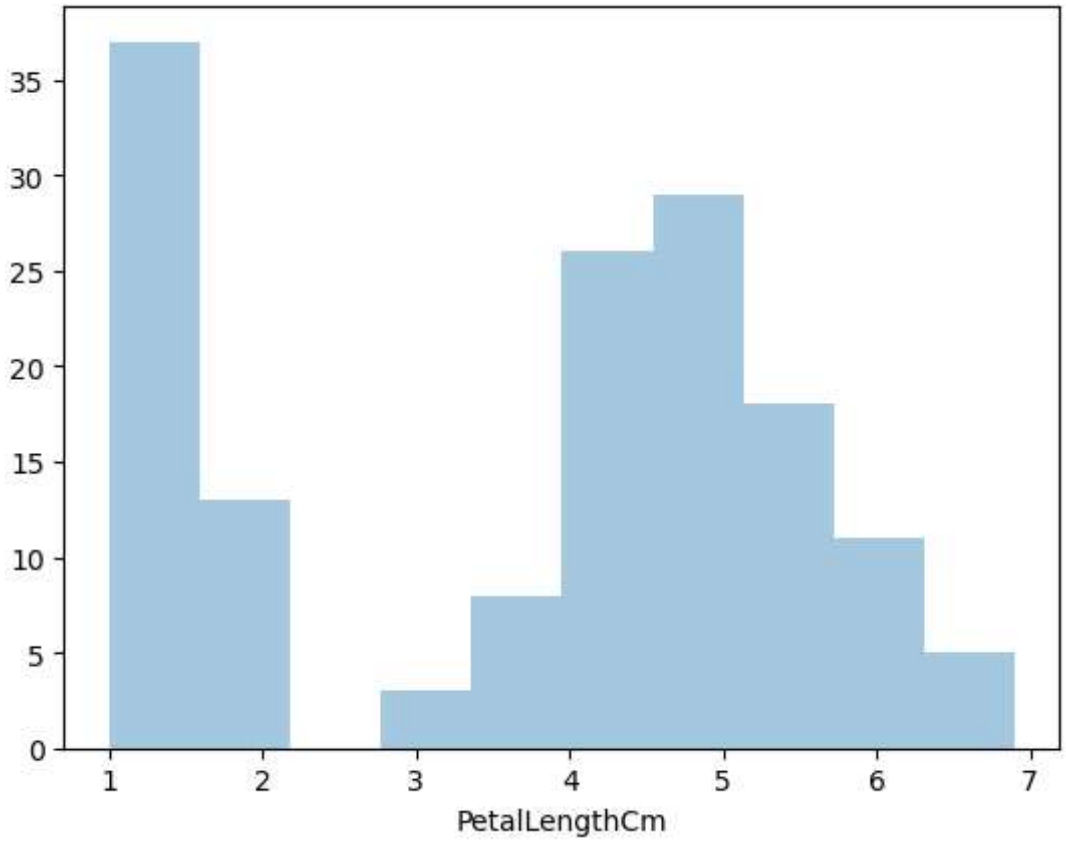
Out[11]: <Axes: xlabel='PetalWidthCm', ylabel='Species'>



In [12]:
```
sns.distplot(iris['PetalLengthCm'],bins=10,kde=False)
```

```
C:\Users\user\AppData\Local\Temp\ipykernel_7552\2771529159.py:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751 (https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751)

  sns.distplot(iris['PetalLengthCm'],bins=10,kde=False)
```

Out[12]: <Axes: xlabel='PetalLengthCm'>



In [ ]: