```
In [1]:
```

```
import pandas as pd
import numpy as ny
import seaborn as sns
```

In [2]:

```
data = pd.read_csv('Iris.csv')
```

In [3]:

```
data.head()
```

Out[3]:

	ld	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

In [4]:

data.isnull().sum()

Out[4]:

0
0
0
0
0
0

In [5]:

data.info

Out[5]:

<box< th=""><th>nd method</th><th>DataFrame.info</th><th>of</th><th>Id</th><th>SepalLengthCm</th><th>SepalWidthCm</th></box<>	nd method	DataFrame.info	of	Id	SepalLengthCm	SepalWidthCm
Peta	lLengthCm	PetalWidthCm	\			
0	1	5.1	3	3.5	1.4	0.2
1	2	4.9		3.0	1.4	0.2
2	3	4.7		3.2	1.3	0.2
3	4	4.6		3.1	1.5	0.2
4	5	5.0		3.6	1.4	0.2
145	146	6.7		3.0	5.2	2.3
146	147	6.3		2.5	5.0	1.9
147	148	6.5	:	3.0	5.2	2.0
148	149	6.2	:	3.4	5.4	2.3
149	150	5.9	:	3.0	5.1	1.8

Species Iris-setosa 0 1 Iris-setosa 2 Iris-setosa 3 Iris-setosa 4 Iris-setosa . . Iris-virginica 145 146 Iris-virginica 147 Iris-virginica Iris-virginica 148 Iris-virginica 149

[150 rows x 6 columns]>

In [6]:

data

Out[6]:

	ld	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

150 rows × 6 columns

In [7]:

```
print("The feature in Iris dataset is: ")
print("SepalLengthCm : ", data['SepalLengthCm'].dtype)
print("PetalLengthCm : ", data['PetalLengthCm'].dtype)
print("SepalWidthCm : ", data['SepalWidthCm'].dtype)
print("PetalWidthCm : ", data['PetalWidthCm'].dtype)
print("Species : ", data['Species'].dtype)
```

The feature in Iris dataset is:

SepalLengthCm : float64
PetalLengthCm : float64
SepalWidthCm : float64
PetalWidthCm : float64

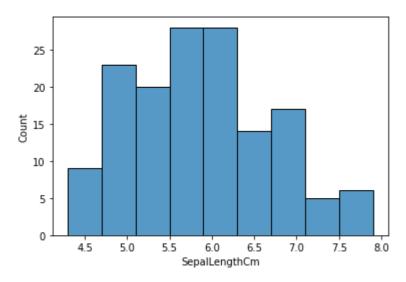
Species: object

In [8]:

```
sns.histplot(x = data['SepalLengthCm'])
```

Out[8]:

<AxesSubplot:xlabel='SepalLengthCm', ylabel='Count'>

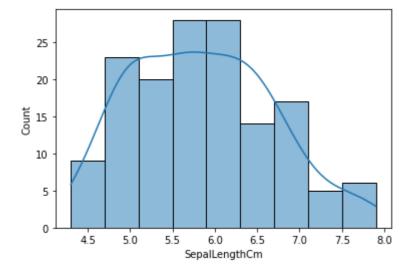


In [9]:

```
sns.histplot(x = data['SepalLengthCm'],kde='true')
```

Out[9]:

<AxesSubplot:xlabel='SepalLengthCm', ylabel='Count'>

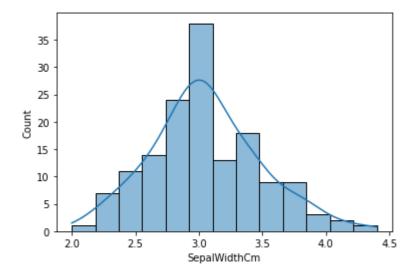


In [10]:

```
sns.histplot(x = data['SepalWidthCm'],kde='true')
```

Out[10]:

<AxesSubplot:xlabel='SepalWidthCm', ylabel='Count'>

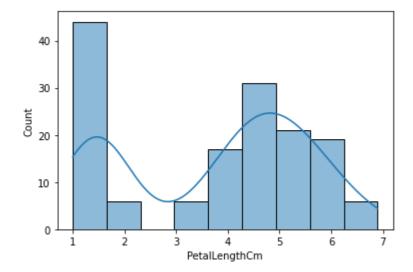


In [11]:

```
sns.histplot(x = data['PetalLengthCm'],kde='true')
```

Out[11]:

<AxesSubplot:xlabel='PetalLengthCm', ylabel='Count'>

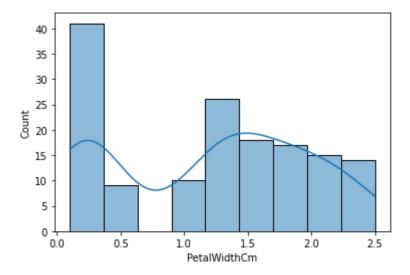


In [12]:

```
sns.histplot(x = data['PetalWidthCm'],kde='true')
```

Out[12]:

<AxesSubplot:xlabel='PetalWidthCm', ylabel='Count'>

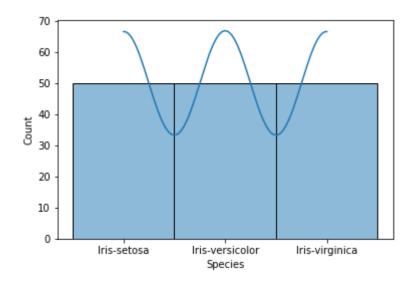


In [13]:

```
sns.histplot(x = data['Species'],kde='true')
```

Out[13]:

<AxesSubplot:xlabel='Species', ylabel='Count'>

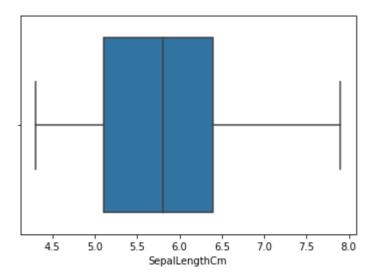


In [14]:

sns.boxplot(x=data['SepalLengthCm'])

Out[14]:

<AxesSubplot:xlabel='SepalLengthCm'>

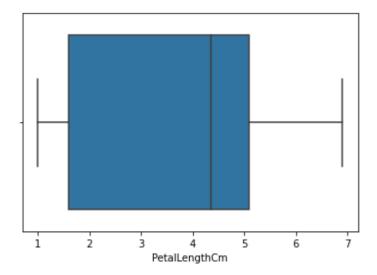


In [15]:

sns.boxplot(x=data['PetalLengthCm'])

Out[15]:

<AxesSubplot:xlabel='PetalLengthCm'>

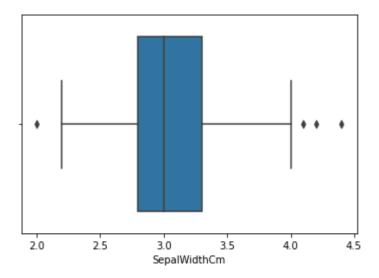


In [16]:

sns.boxplot(x=data['SepalWidthCm'])

Out[16]:

<AxesSubplot:xlabel='SepalWidthCm'>

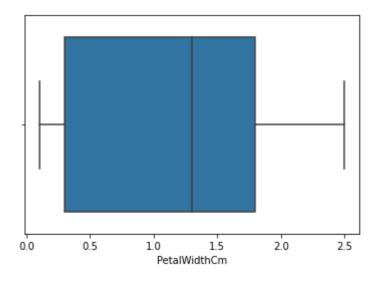


In [17]:

sns.boxplot(x=data['PetalWidthCm'])

Out[17]:

<AxesSubplot:xlabel='PetalWidthCm'>

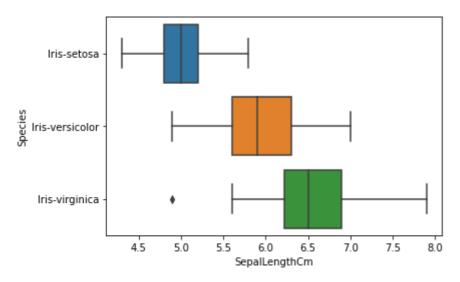


In [18]:

sns.boxplot(x='SepalLengthCm',y='Species',data=data)

Out[18]:

<AxesSubplot:xlabel='SepalLengthCm', ylabel='Species'>

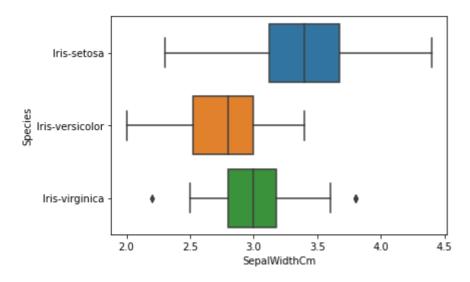


In [19]:

sns.boxplot(x='SepalWidthCm',y='Species',data=data)

Out[19]:

<AxesSubplot:xlabel='SepalWidthCm', ylabel='Species'>

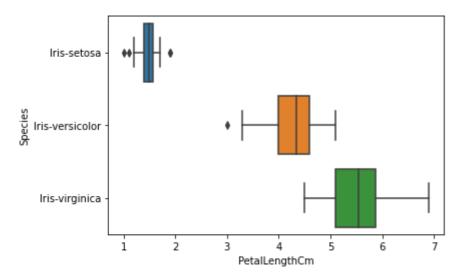


In [20]:

sns.boxplot(x='PetalLengthCm',y='Species',data=data)

Out[20]:

<AxesSubplot:xlabel='PetalLengthCm', ylabel='Species'>

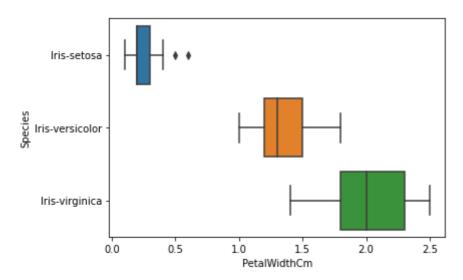


In [21]:

sns.boxplot(x='PetalWidthCm',y='Species',data=data)

Out[21]:

<AxesSubplot:xlabel='PetalWidthCm', ylabel='Species'>



In []: