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

In [4]:
```python
df = pd.read_csv("https://raw.githubusercontent.com/shrikant-temburwar/Iris-Dataset
```

In [6]:
```python
df
```

Out[6]:

	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

150 rows × 6 columns

In [8]:
```python
df.describe()
```

Out[8]:

	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 [10]:
```python
df.shape
```

Out[10]:
```
(150, 6)
```

In [12]:
```python
df["Species"].unique()
```

Out[12]:
```
array(['Iris-setosa', 'Iris-versicolor', 'Iris-virginica'], dtype=object)
```

In [14]:
```python
df.groupby("Species").size()
```

Out[14]:
```
Species
Iris-setosa        50
Iris-versicolor    50
Iris-virginica     50
dtype: int64
```

In [16]:
```python
df.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 [19]:
```python
def graph(y):
 sns.boxplot(x="Species", y=y, data=df)

plt.figure(figsize=(10,10))

# Adding the subplot at the specified
# grid position
plt.subplot(221)
graph('SepalLengthCm')

plt.subplot(222)
graph('SepalWidthCm')

plt.subplot(223)
graph('PetalLengthCm')

plt.subplot(224)
graph('PetalWidthCm')

plt.show()
```
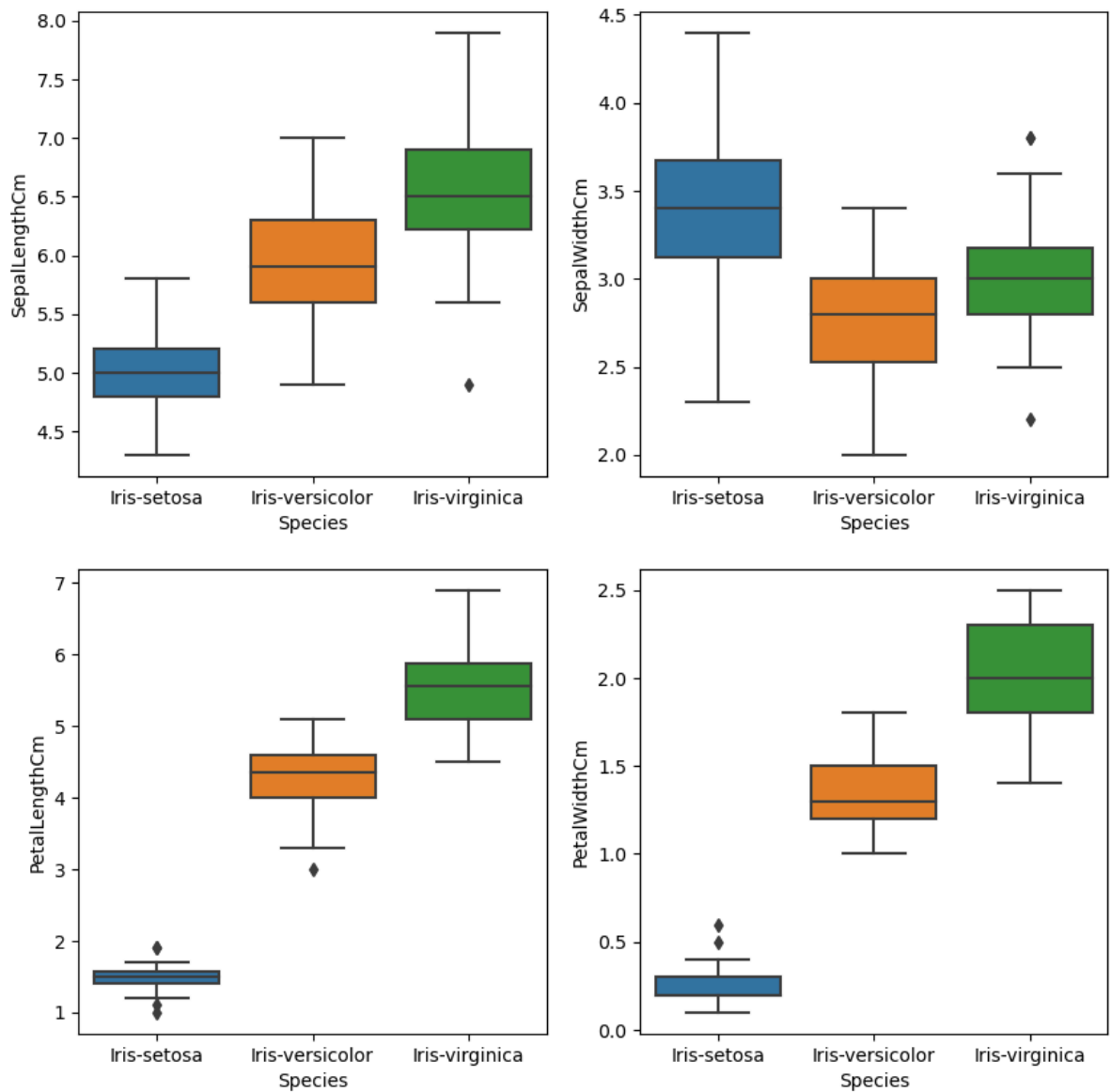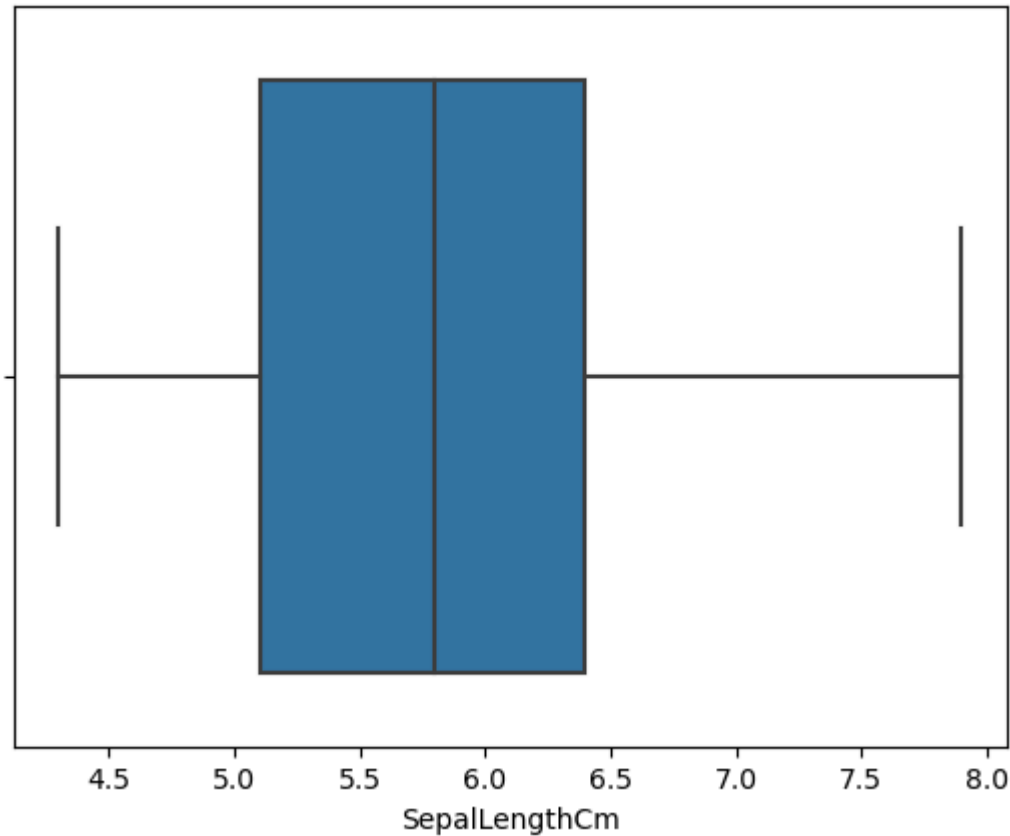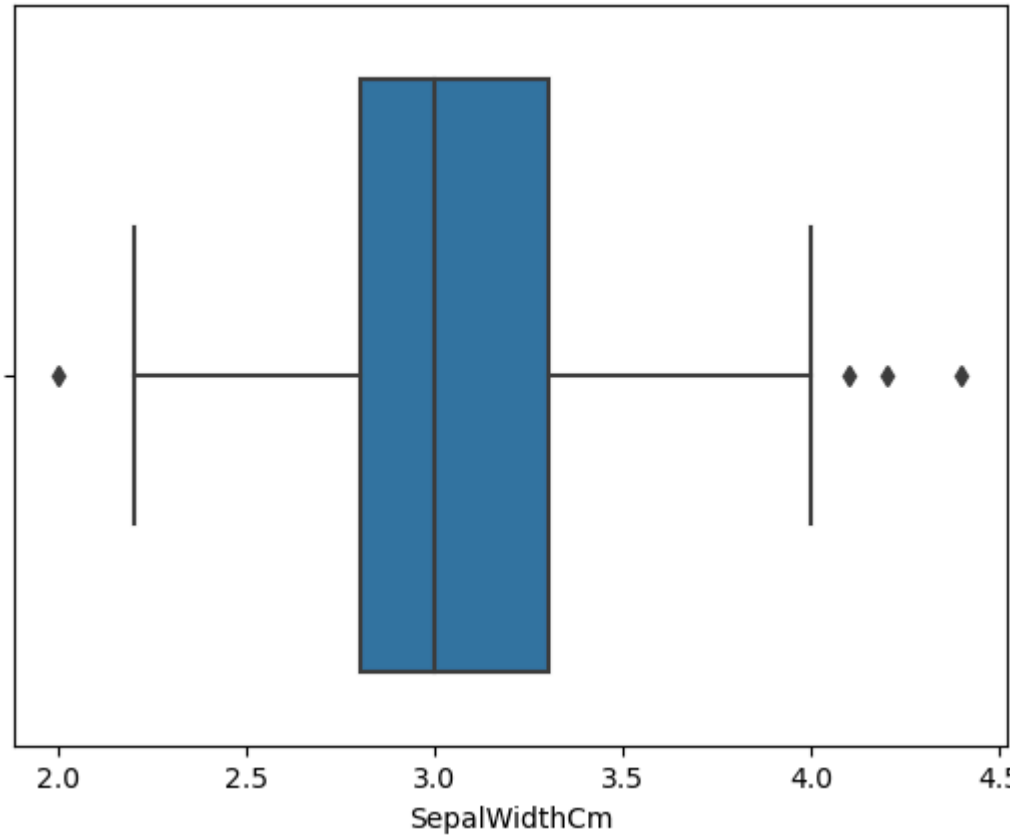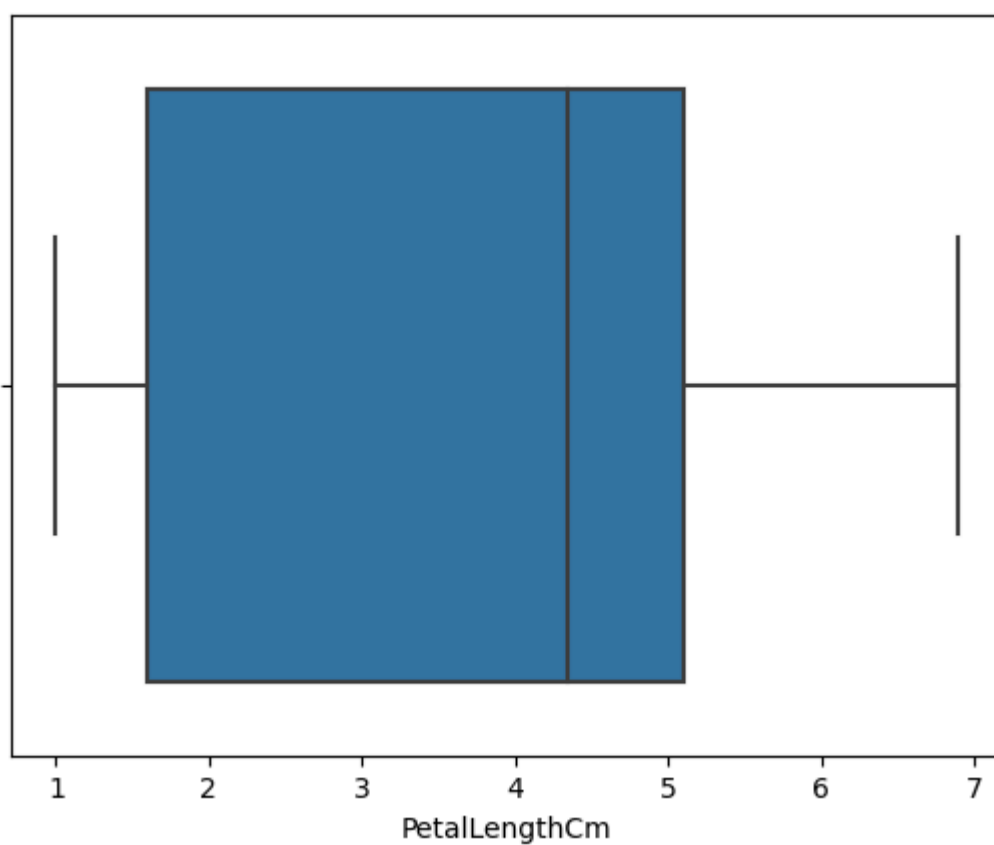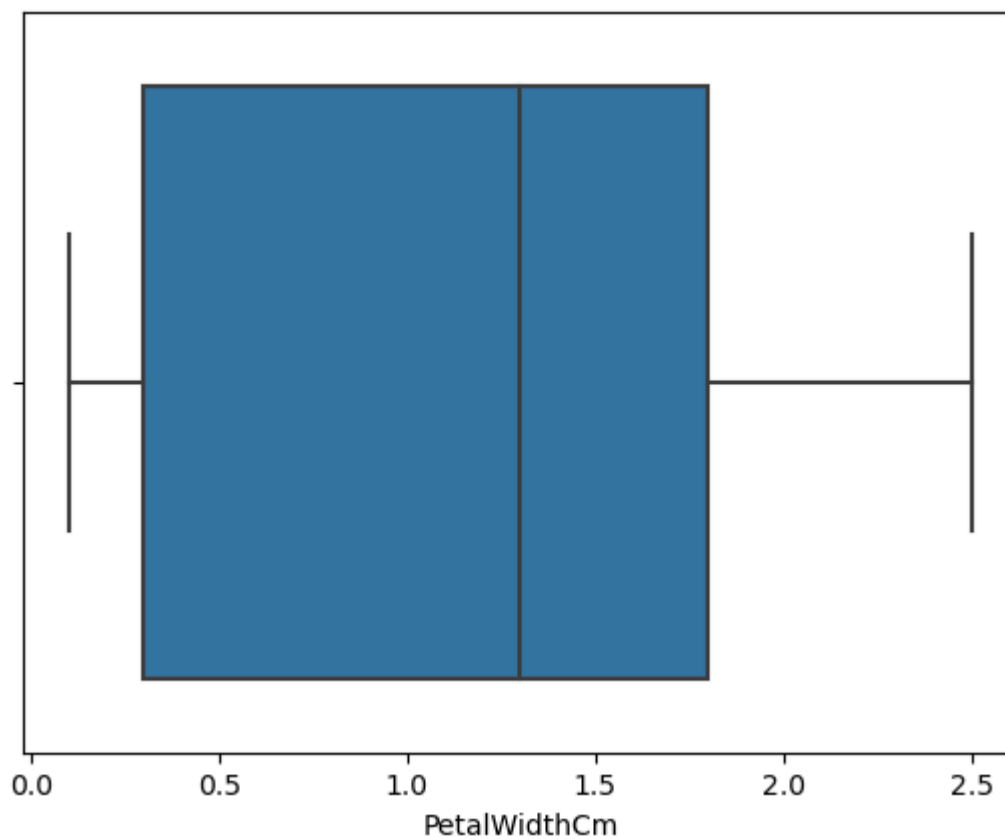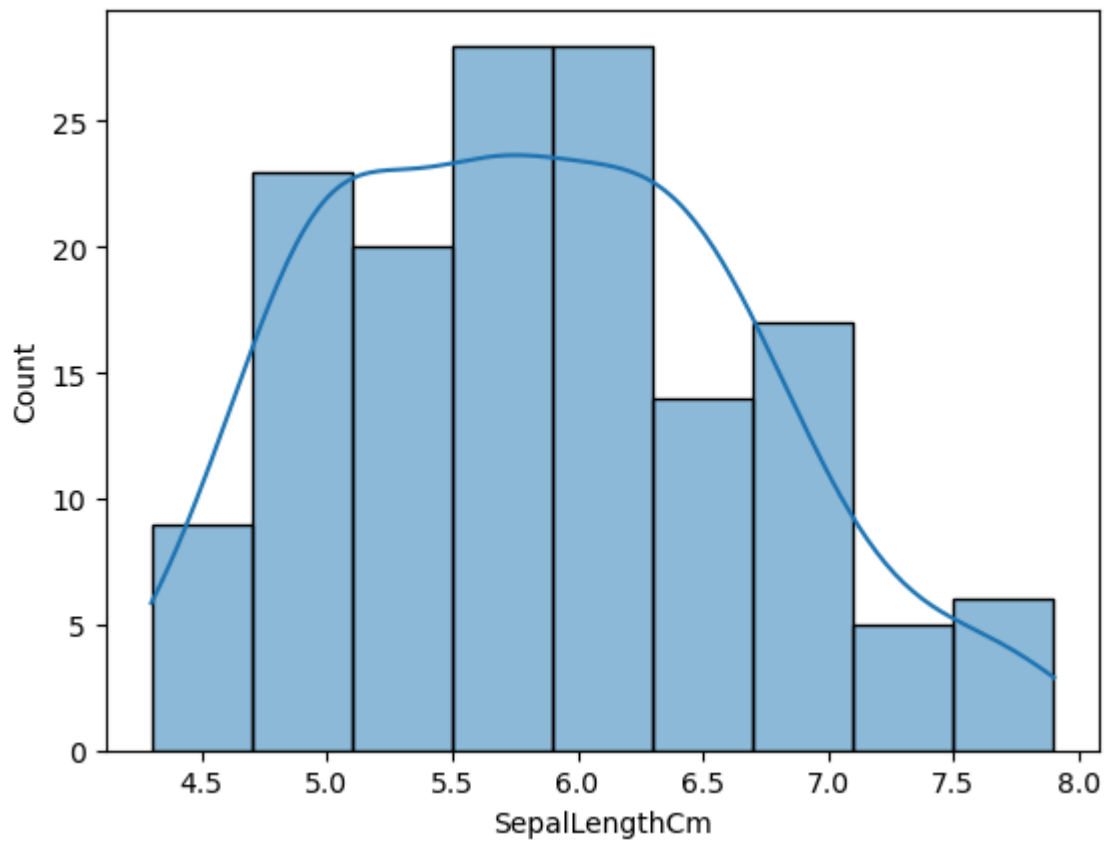
```
In [21]:  sns.boxplot(x='SepalWidthCm', data=df)
          plt.show()
          sns.boxplot(x='SepalLengthCm', data=df)
          plt.show()
          sns.boxplot(x='PetalWidthCm', data=df)
          plt.show()
          sns.boxplot(x='PetalLengthCm', data=df)
          plt.show()
```
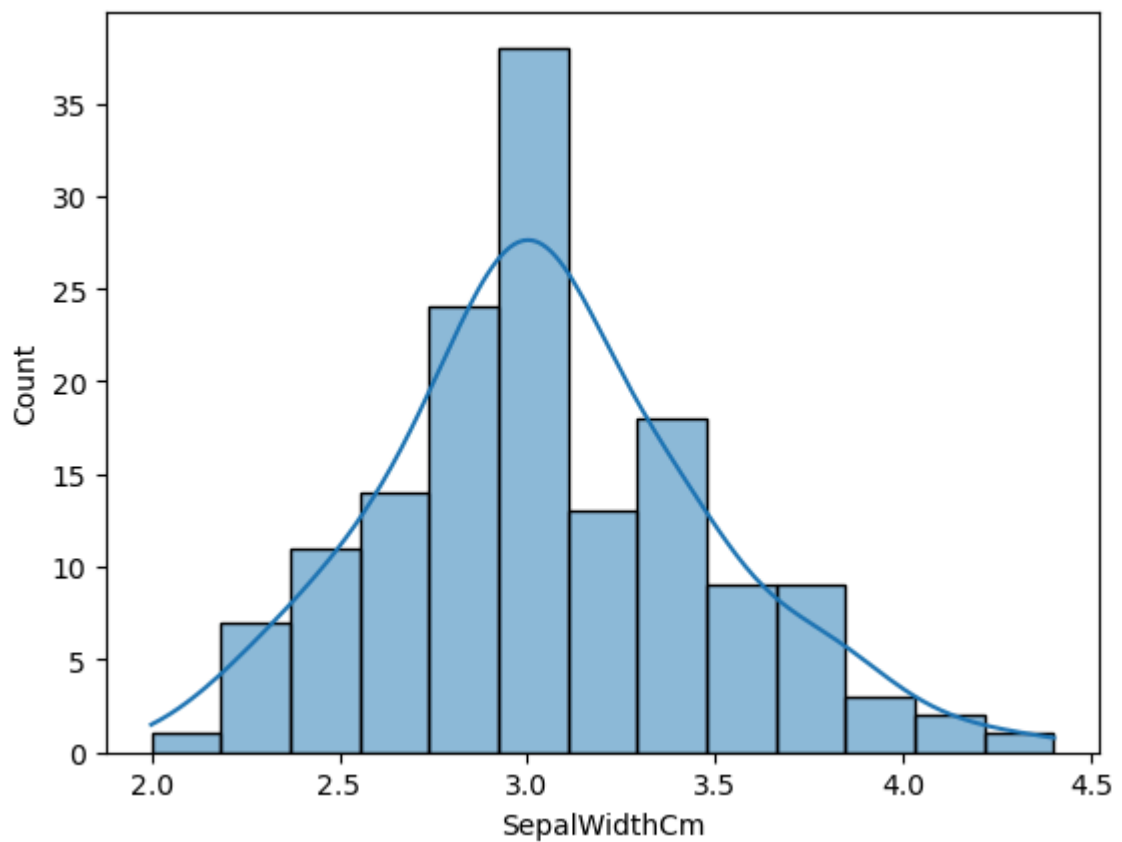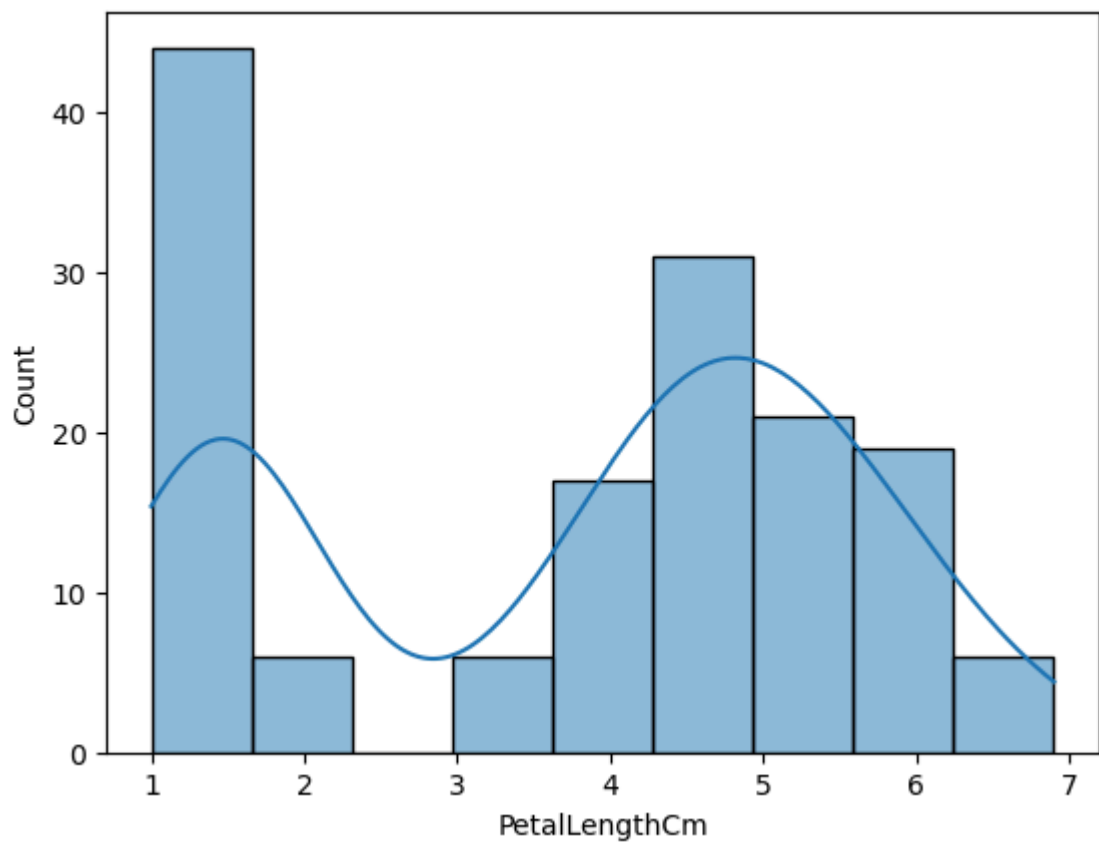
SepalWidthCm

SepalLengthCm

In [25]:
```python
sns.histplot(df["SepalLengthCm"], kde=True)
plt.show()
```

```
In [27]: sns.histplot(df["SepalWidthCm"], kde=True)
         plt.show()
```



```
In [29]: sns.histplot(df["PetalLengthCm"], kde=True)
         plt.show()
```

```
In [30]:  sns.histplot(df["PetalWidthCm"], kde=True)
          plt.show()
```