```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

```
print(sns.get_dataset_names())
```

```
ds', 'dots', 'dowjones', 'exercise', 'flights', 'fmri', 'geyser', 'glue', 'healthexp'
```

```
df = sns.load_dataset('iris')
```

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 5 columns):
 #   Column        Non-Null Count  Dtype  
---  ------        --------------  -----  
 0   sepal_length  150 non-null    float64
 1   sepal_width   150 non-null    float64
 2   petal_length  150 non-null    float64
 3   petal_width   150 non-null    float64
 4   species       150 non-null    object 
dtypes: float64(4), object(1)
memory usage: 6.0+ KB
```

```
df.size
```

```
750
```

```
df.columns
```

```
Index(['sepal_length', 'sepal_width', 'petal_length', 'petal_width',
       'species'],
      dtype='object')
```

```
df.shape
```

```
(150, 5)
```

```
df.dtypes
```

```
sepal_length    float64
sepal_width     float64
petal_length    float64
petal_width     float64
species          object
dtype: object
```

```
df.head(5)
```

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa

Next steps: Generate code with `df` View recommended plots

```
df.isna().sum()
```

```
sepal_length    0
sepal_width     0
petal_length    0
petal_width     0
species         0
dtype: int64
```

```
df.columns
```

```
Index(['sepal_length', 'sepal_width', 'petal_length', 'petal_width',
       'species'],
      dtype='object')
```

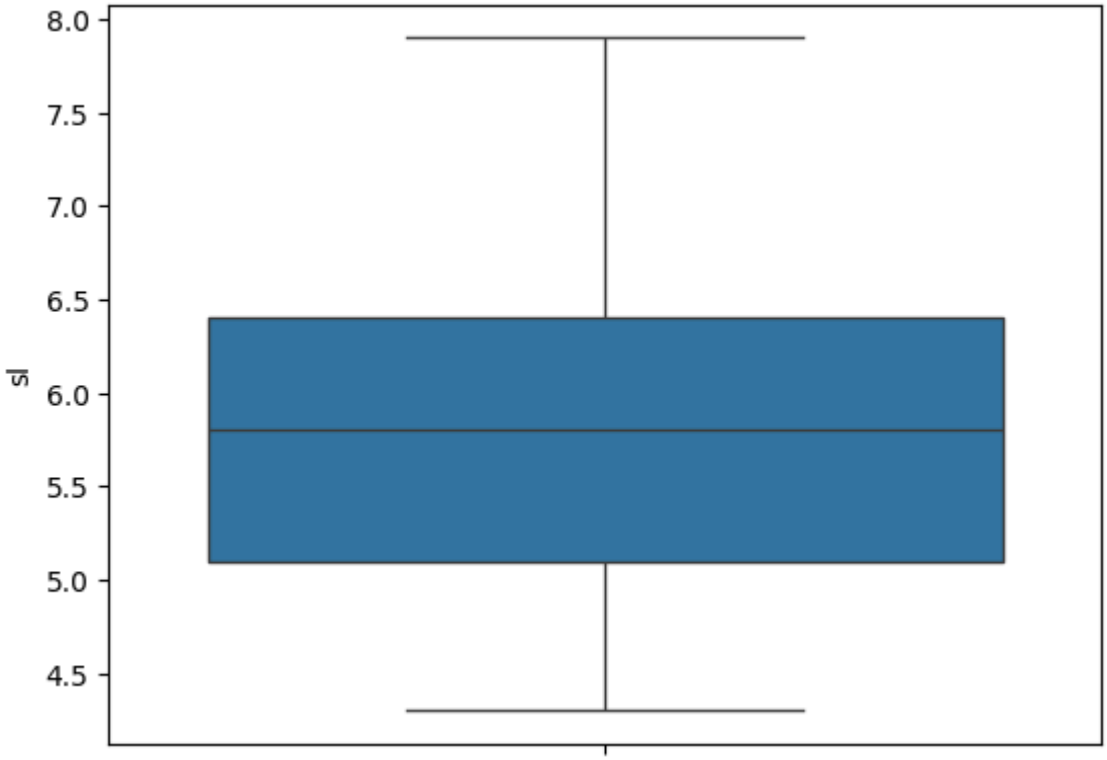
```
df.columns = ('sl', 'sw', 'pl', 'pw', 'species')
```

```
df.columns
```

```
Index(['sl', 'sw', 'pl', 'pw', 'species'], dtype='object')
```

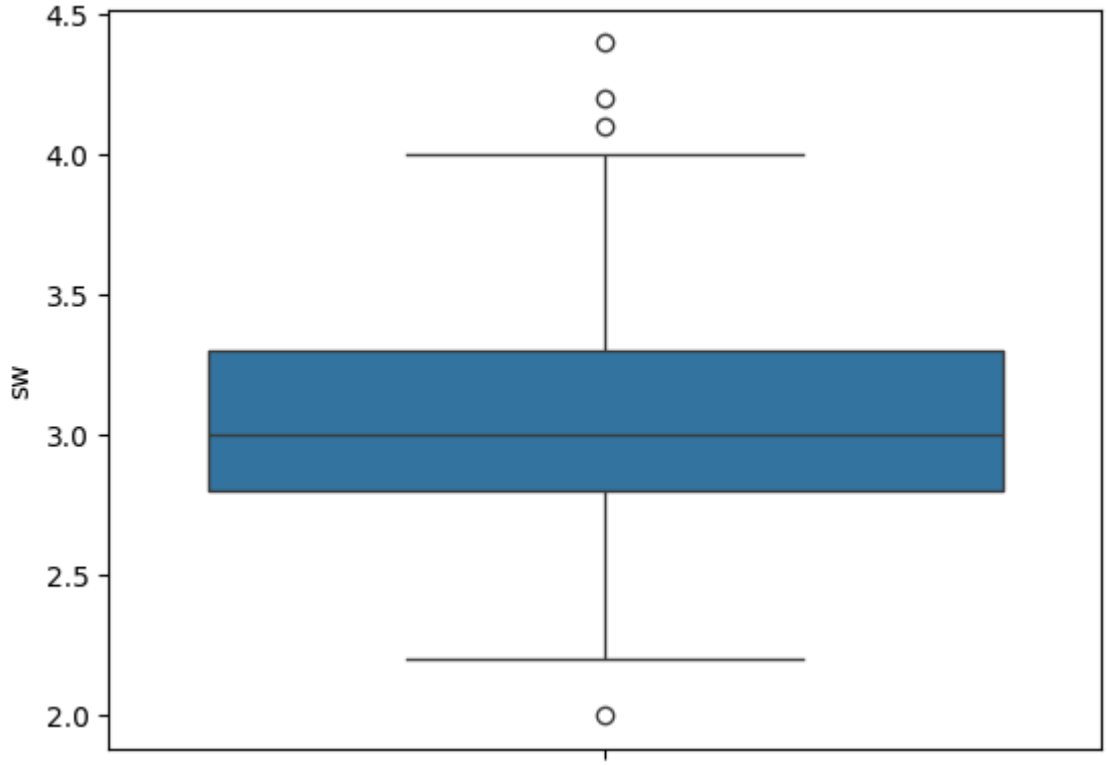
```
sns.boxplot(data = df, y = 'sl')
```

```
<Axes: ylabel='sl'>
```



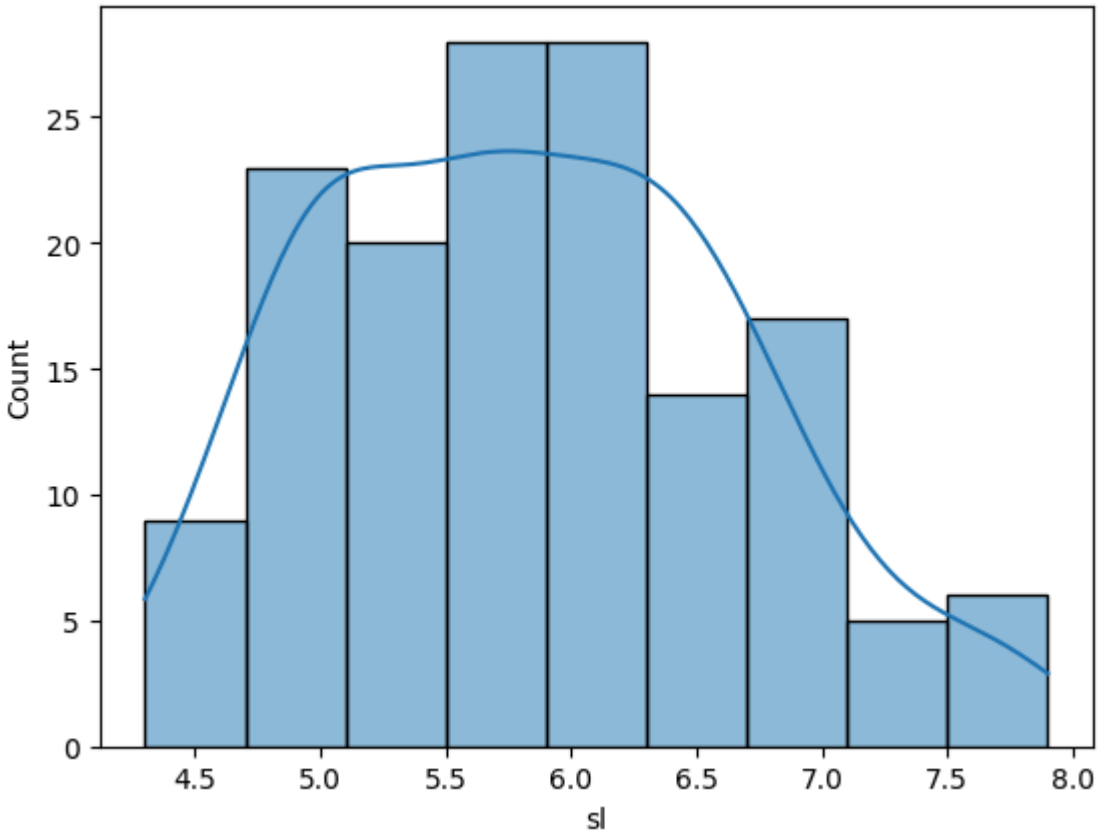

```
sns.boxplot(data = df, y = 'sw')
```

```
<Axes: ylabel='sw'>
```



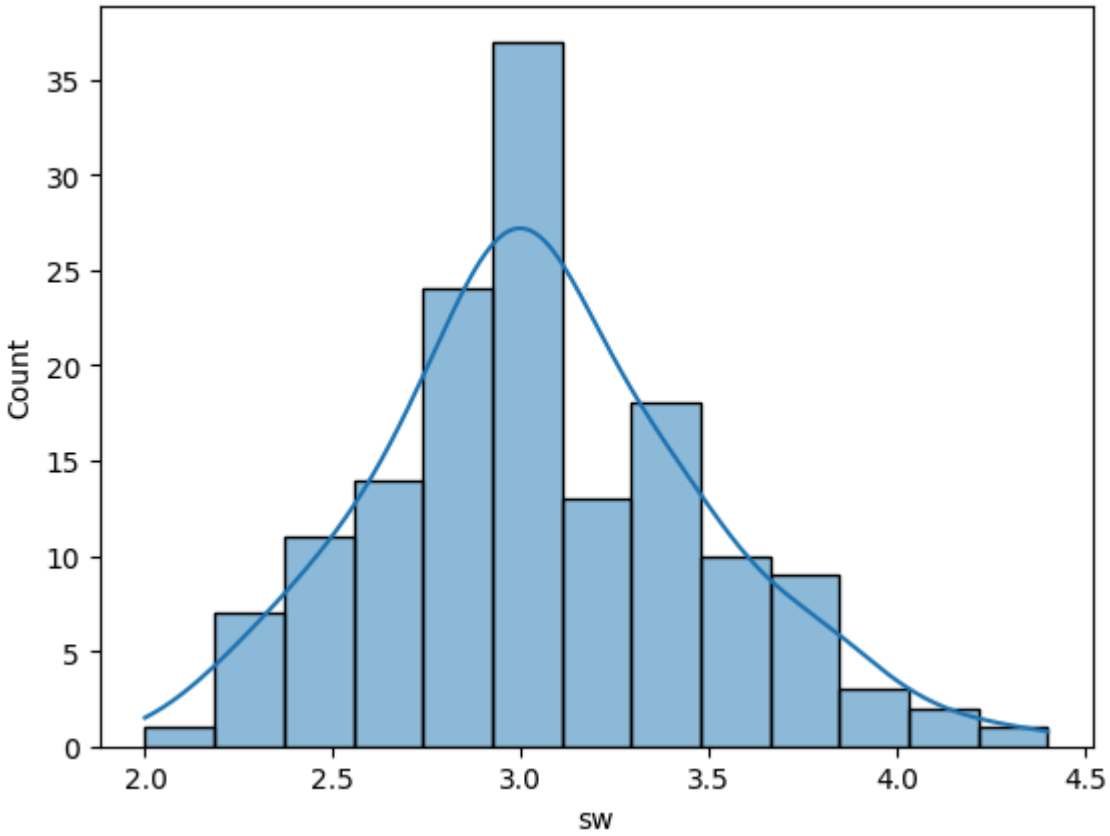

```
sns.histplot(df['sl'], kde = True)
```

```
<Axes: xlabel='sl', ylabel='Count'>
```



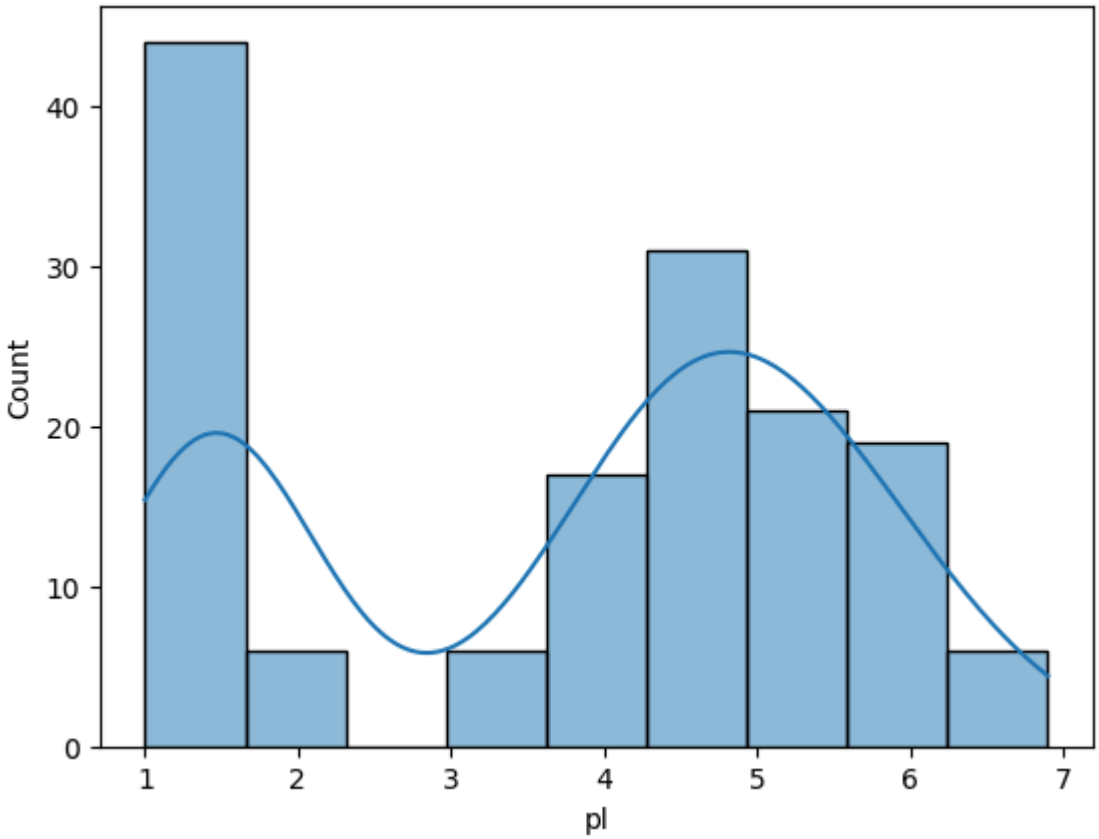

```
sns.histplot(df['sw'], kde = True)
```

```
<Axes: xlabel='sw', ylabel='Count'>
```



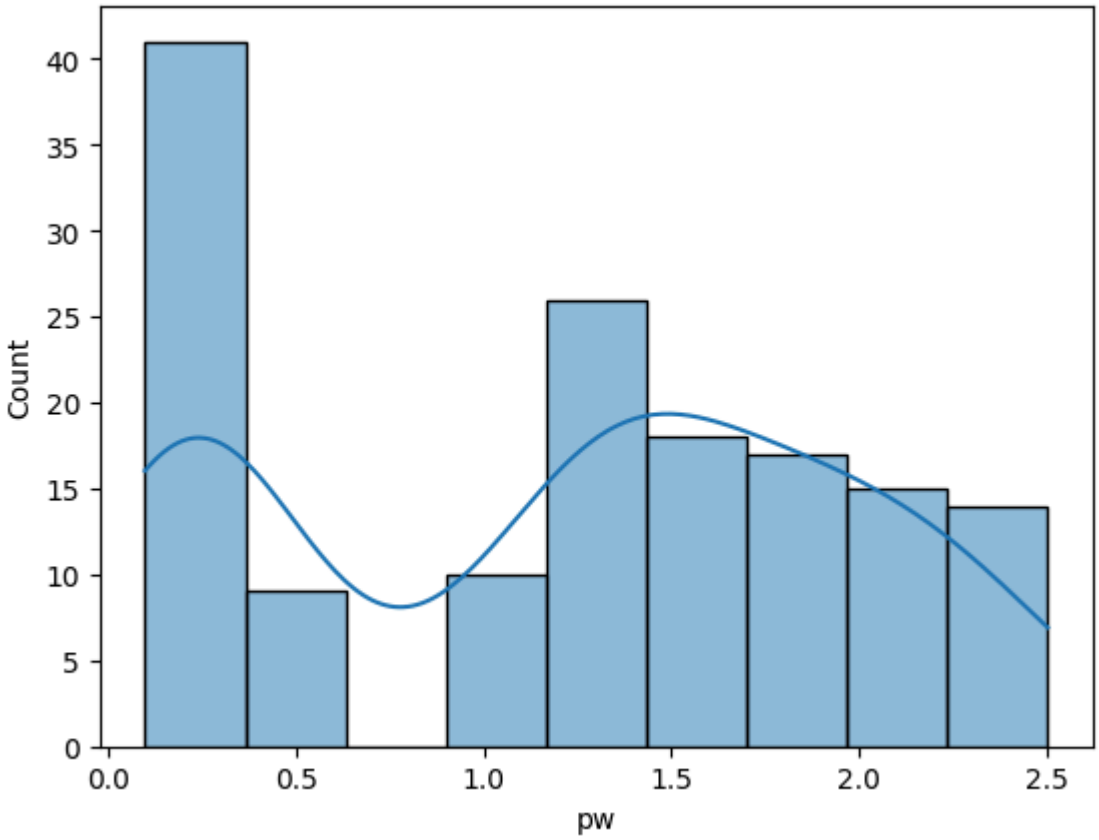

```
sns.histplot(df['pl'], kde = True)
```

```
<Axes: xlabel='pl', ylabel='Count'>
```



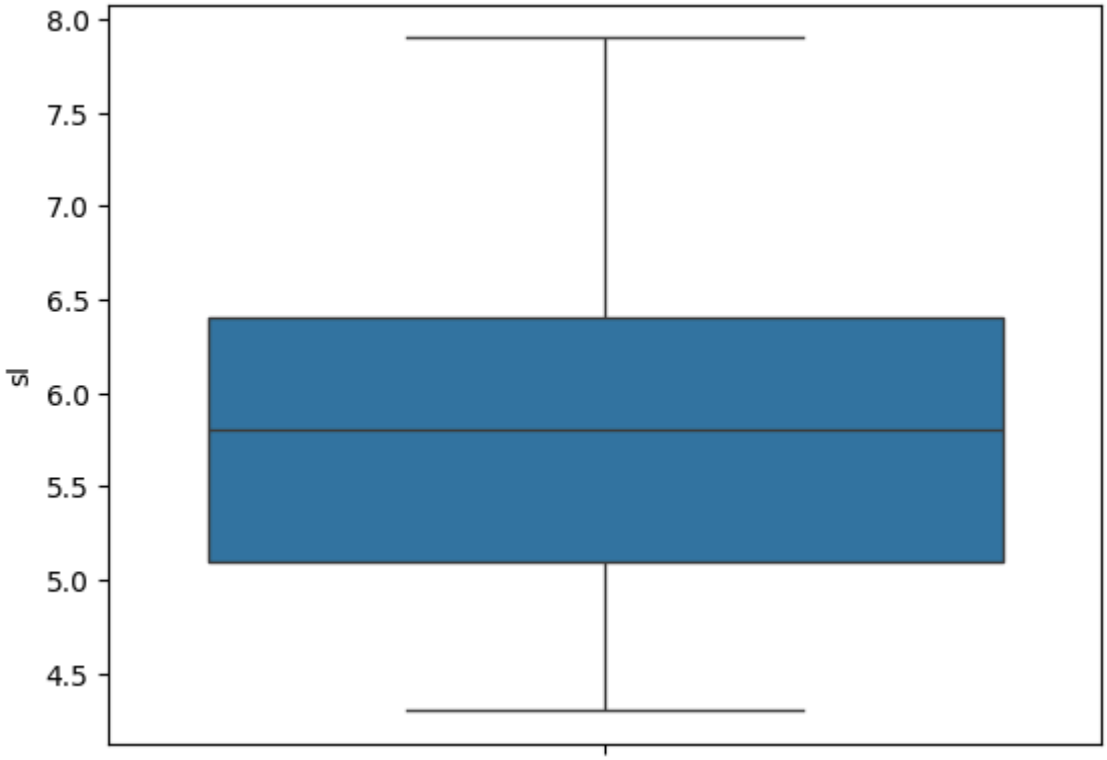

```
sns.histplot(df['pw'], kde = True)
```

```
<Axes: xlabel='pw', ylabel='Count'>
```



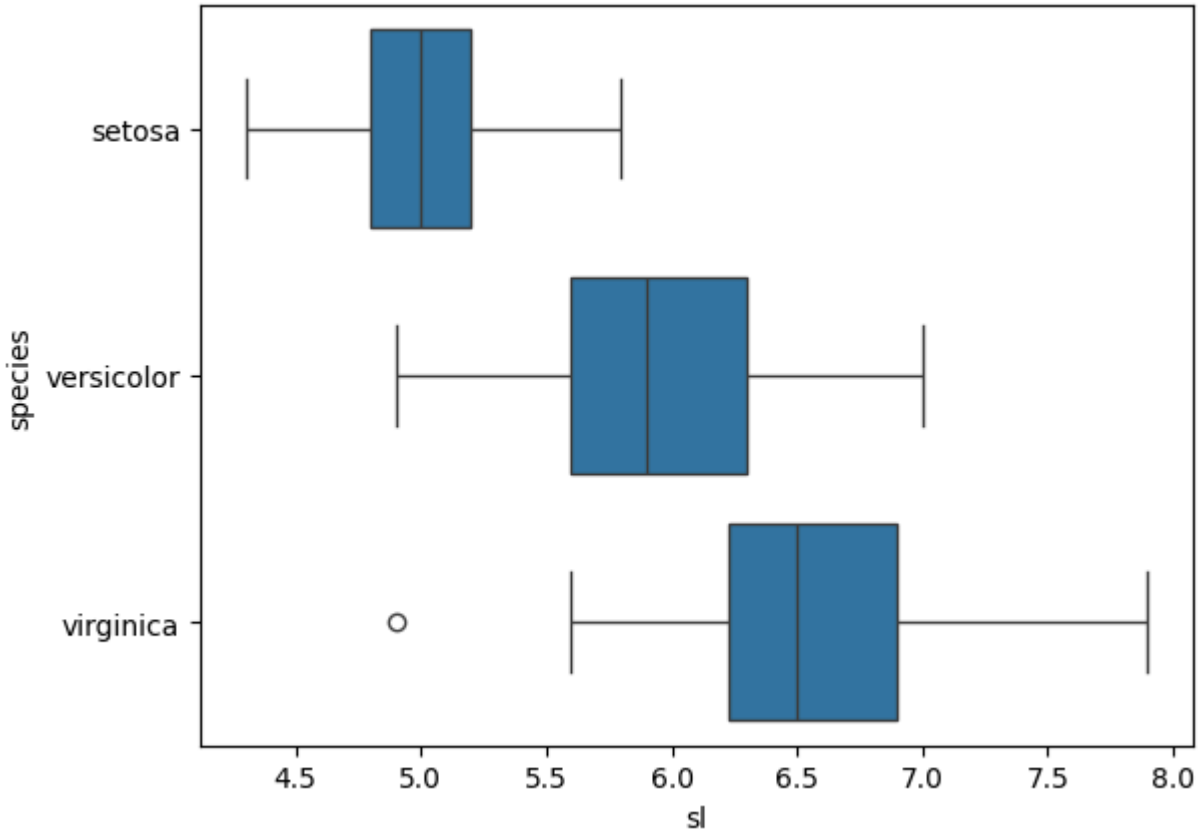

```
sns.boxplot(df['sl'])
```

```
<Axes: ylabel='sl'>
```



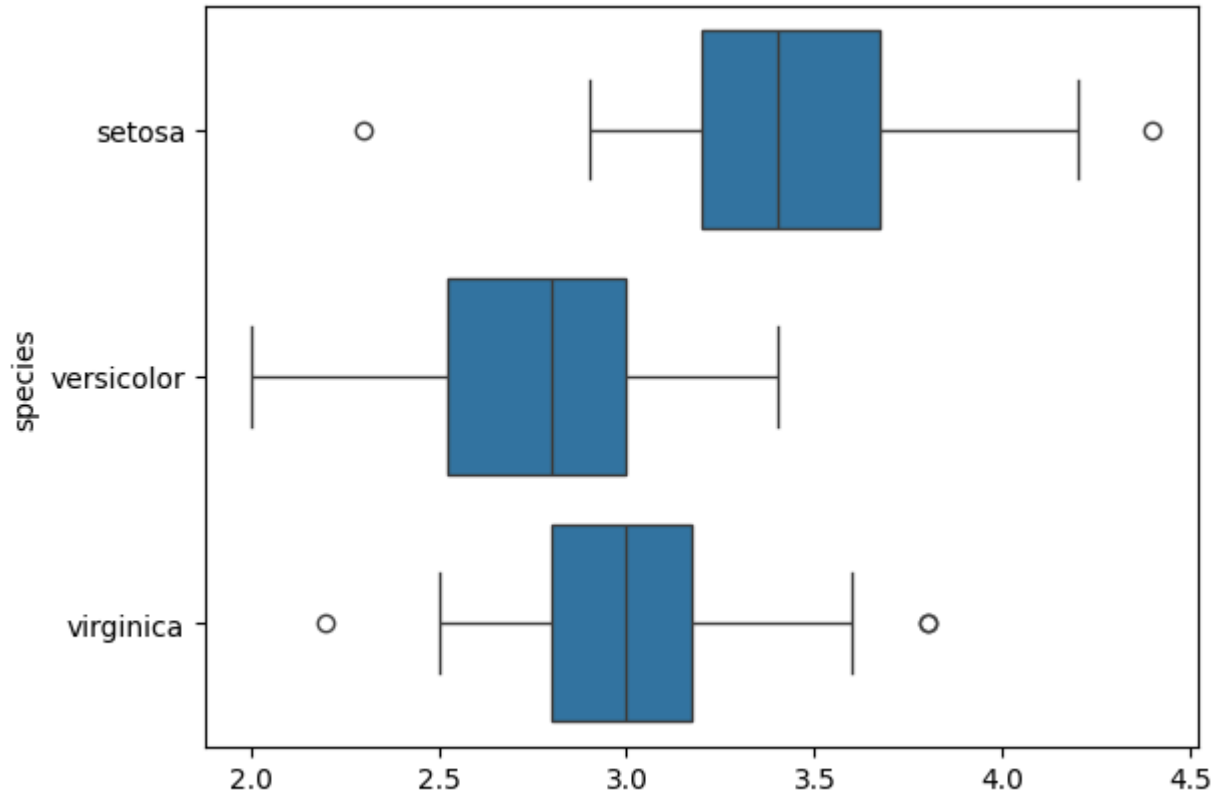

```
sns.boxplot(x='sl', y='species', data = df)
```

```
<Axes: xlabel='sl', ylabel='species'>
```



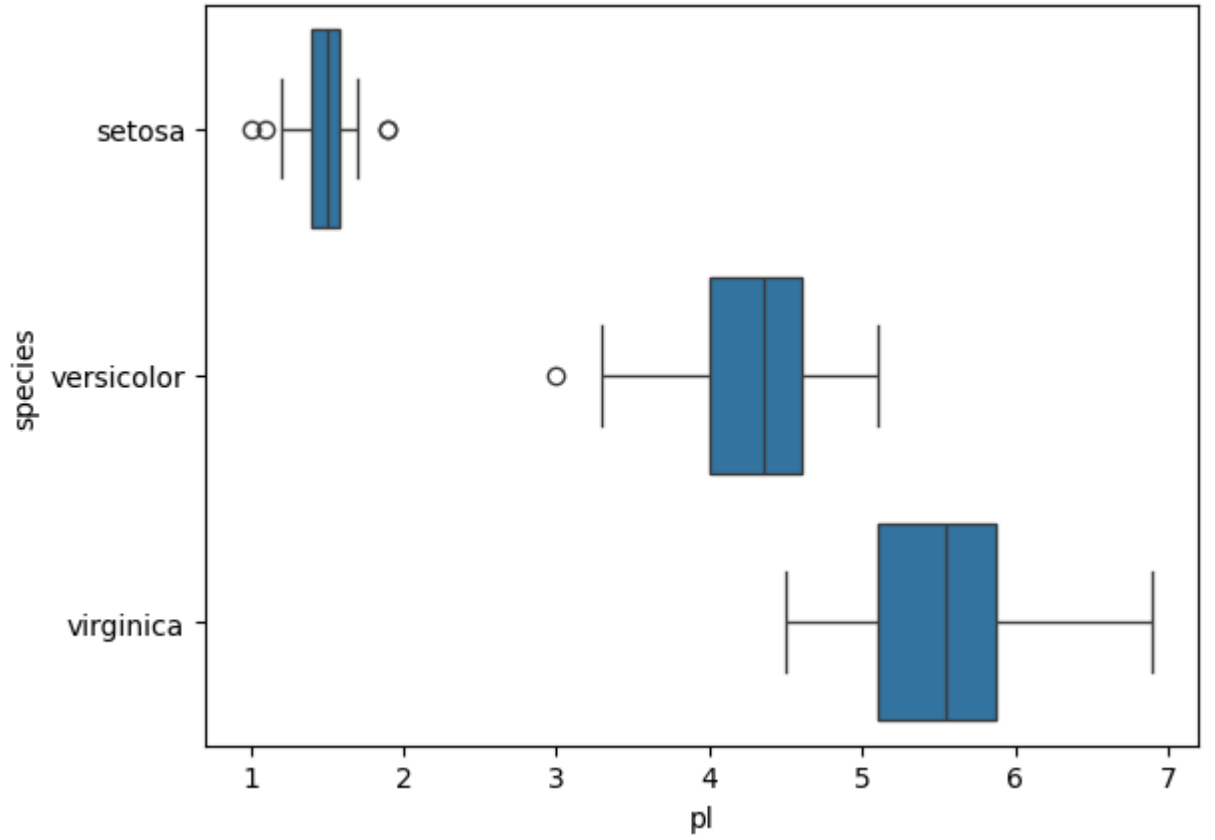

```
sns.boxplot(x = 'sw', y = 'species', data = df)
```

```
<Axes: xlabel='sw', ylabel='species'>
```




```
sns.boxplot(x = 'pl', y = 'species', data = df)
```

```
<Axes: xlabel='pl', ylabel='species'>
```



Start coding or generate with AI.

+ Code + Text