Assignment_10

March 25, 2022

[ ]:
```
import pandas as pd
import seaborn as sns
```

[ ]:
```
df = sns.load_dataset('iris')
```

[ ]:
```
df.head()
```

[ ]:

	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

[ ]:
```
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.describe()
```

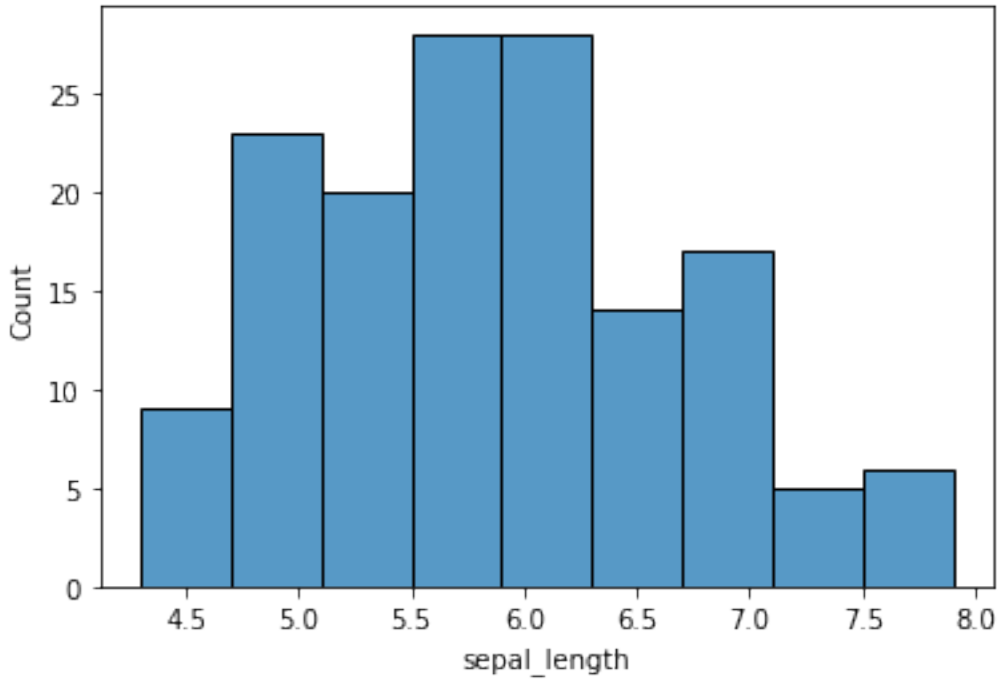
[ ]:

	sepal_length	sepal_width	petal_length	petal_width
count	150.000000	150.000000	150.000000	150.000000
mean	5.843333	3.057333	3.758000	1.199333
std	0.828066	0.435866	1.765298	0.762238
min	4.300000	2.000000	1.000000	0.100000
25%	5.100000	2.800000	1.600000	0.300000
50%	5.800000	3.000000	4.350000	1.300000

```
75%         6.400000      3.300000      5.100000      1.800000
max         7.900000      4.400000      6.900000      2.500000
```

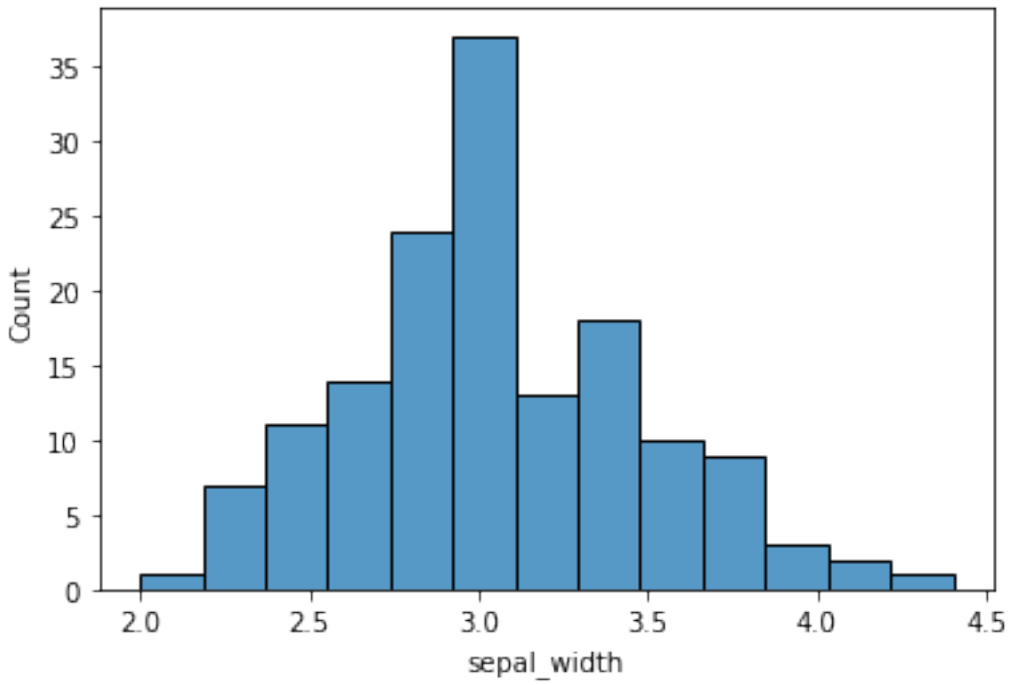
[ ]:
```
sns.histplot(df['sepal_length'])
```

[ ]:
```
<AxesSubplot:xlabel='sepal_length', ylabel='Count'>
```



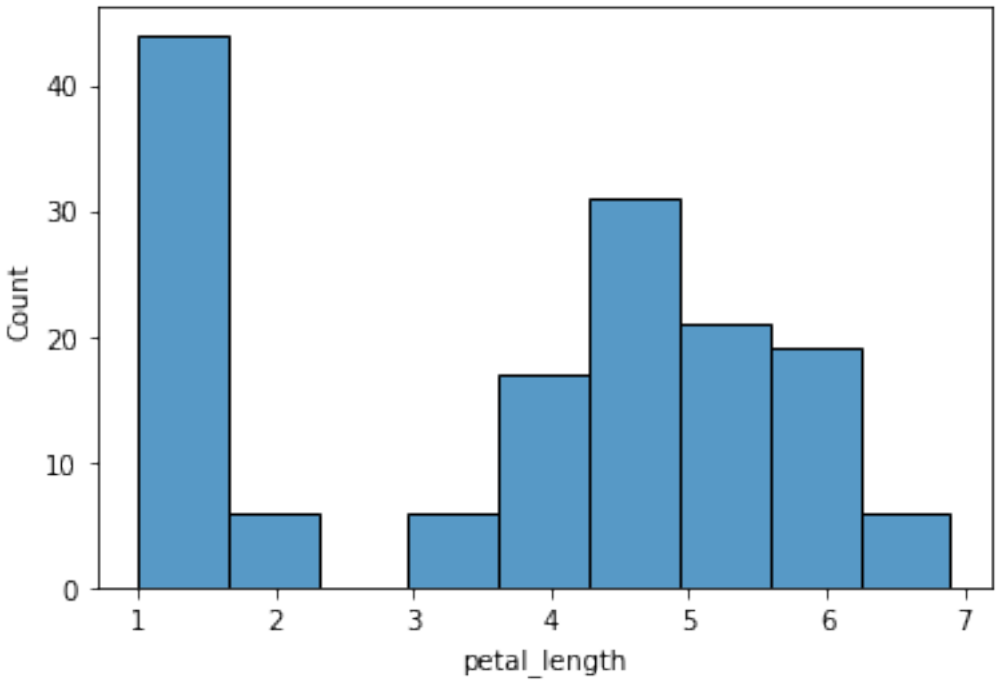
[ ]:
```
sns.histplot(df['sepal_width'])
```

[ ]:
```
<AxesSubplot:xlabel='sepal_width', ylabel='Count'>
```



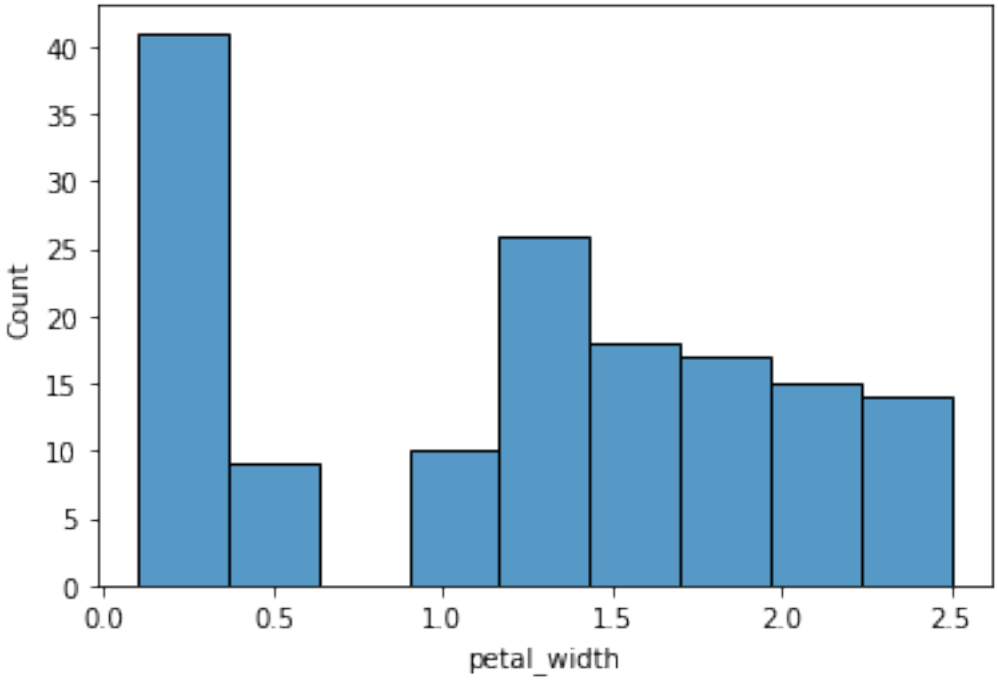
[ ]:
```
sns.histplot(df['petal_length'])
```

[ ]:
```
<AxesSubplot:xlabel='petal_length', ylabel='Count'>
```



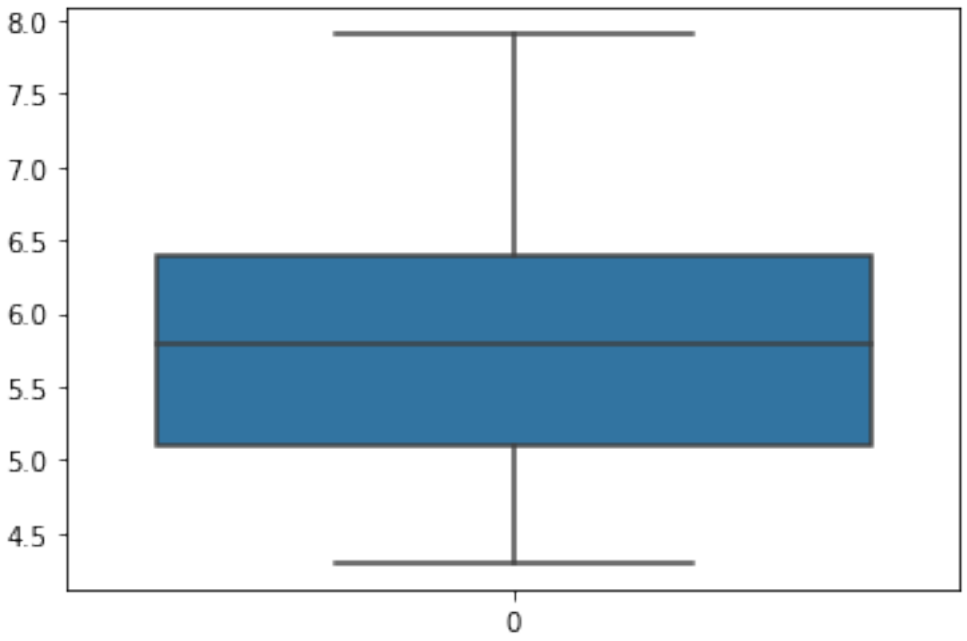
[ ]:
```
sns.histplot(df['petal_width'])
```

[ ]:
```
<AxesSubplot:xlabel='petal_width', ylabel='Count'>
```



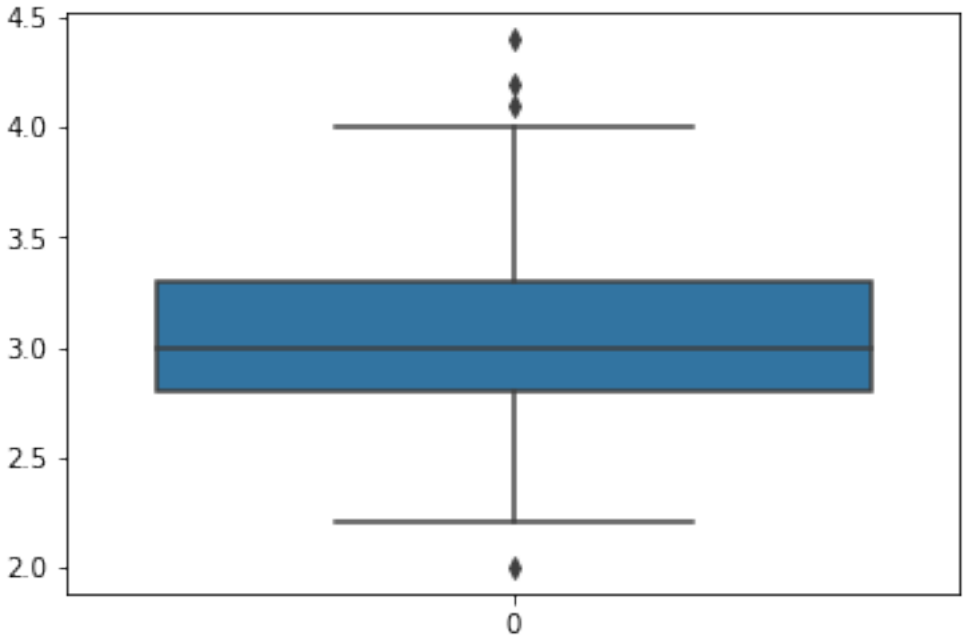
[ ]:
```
sns.boxplot(data=df['sepal_length'])
```

[ ]:
```
<AxesSubplot:>
```



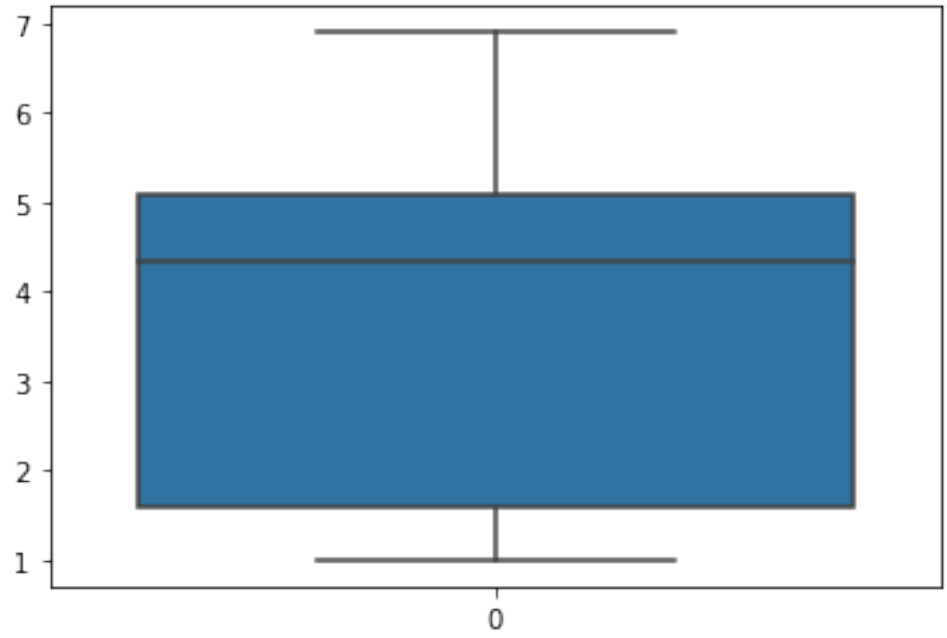
[ ]:
```
sns.boxplot(data=df['sepal_width'])
```

[ ]:
```
<AxesSubplot:>
```



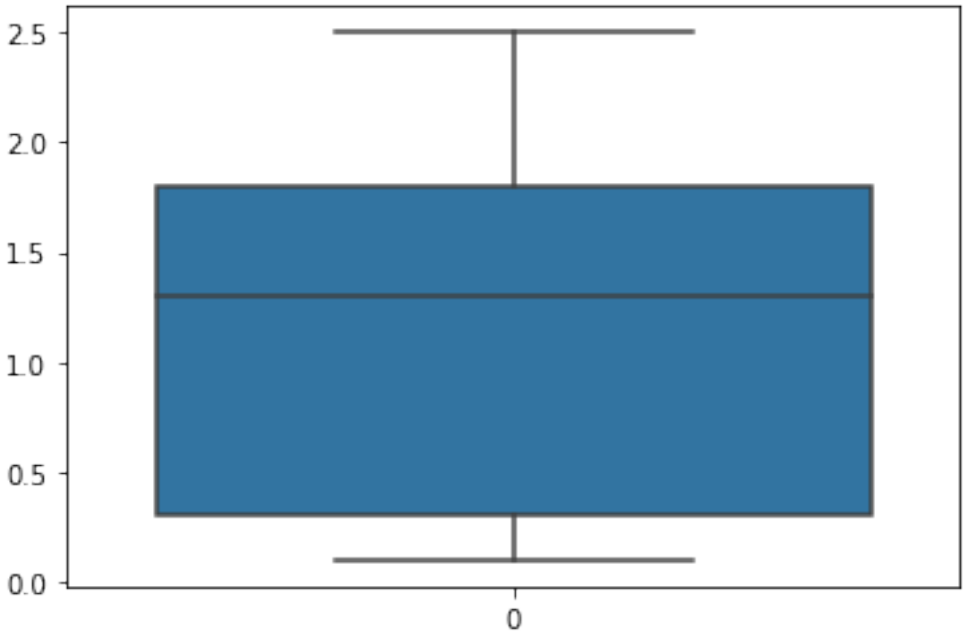
[ ]:
```
sns.boxplot(data=df['petal_length'])
```

[ ]: <AxesSubplot:>



[ ]:
```
sns.boxplot(data=df['petal_width'])
```

[ ]: <AxesSubplot:>



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