In [1]:
```
import pandas as pd
import seaborn as sns
```

In [3]:
```
data = sns.load_dataset('iris')
```

In [25]:
```
data.head()
```

Out[25]:

	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

In [5]:
```
from sklearn.naive_bayes import GaussianNB
```

In [12]:
```
X = features = data[['sepal_length', 'sepal_width', 'petal_length', 'petal_width']]
y = target = data['species']
```

In [13]:
```
model = GaussianNB()
```

In [14]:
```
from sklearn.model_selection import train_test_split
```

In [15]:
```
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.33, random_state=4
```

In [16]:
```
model.fit(X=X_train, y=y_train)
```

Out[16]:
```
GaussianNB()
```

In [18]:
```
prediction = model.predict(X=X_test)
```

In [19]:
```
from sklearn.metrics import classification_report, confusion_matrix
```

In [22]:
```
print(confusion_matrix(y_true=y_test,y_pred=prediction))
```

```
[[19  0  0]
 [ 0 14  1]
 [ 0  1 15]]
```

In [24]:
```
print(classification_report(y_true=y_test,y_pred=prediction))
```

```
              precision    recall  f1-score   support

      setosa       1.00      1.00      1.00        19
  versicolor       0.93      0.93      0.93        15
   virginica       0.94      0.94      0.94        16

    accuracy                           0.96        50
   macro avg       0.96      0.96      0.96        50
weighted avg       0.96      0.96      0.96        50
```

In [ ]:
```

```