In [7]:

```
from sklearn.datasets import load_wine
from sklearn.naive_bayes import GaussianNB
from sklearn.model_selection import train_test_split

# Load wine dataset
data = load_wine()

# Split the dataset into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(data.data, data.target, test_size=0.2

# Create a Gaussian Naive Bayes classifier
gnb = GaussianNB()

# Train the classifier using the training data
gnb.fit(X_train, y_train)

# Predict the classes of the test data
y_pred = gnb.predict(X_test)

# Print the accuracy of the classifier
print("Accuracy:", gnb.score(X_test, y_test))



from sklearn.datasets import load_breast_cancer
from sklearn.naive_bayes import GaussianNB
from sklearn.model_selection import train_test_split

# Load breast cancer dataset
data = load_breast_cancer()

# Split the dataset into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(data.data, data.target, test_size=0.2

# Create a Gaussian Naive Bayes classifier
gnb = GaussianNB()

# Train the classifier using the training data
gnb.fit(X_train, y_train)

# Predict the classes of the test data
y_pred = gnb.predict(X_test)

# Print the accuracy of the classifier
print("Accuracy:", gnb.score(X_test, y_test))




from sklearn.datasets import load_iris
from sklearn.model_selection import train_test_split
from sklearn.naive_bayes import GaussianNB
from sklearn.metrics import accuracy_score

# Load the iris dataset
iris = load_iris()

# Split the data into training and testing sets
```

```
X_train, X_test, y_train, y_test = train_test_split(iris.data, iris.target, test_size=0.3

# Initialize the Naive Bayes classifier
clf = GaussianNB()

# Fit the classifier to the training data
clf.fit(X_train, y_train)

# Make predictions on the testing data
y_pred = clf.predict(X_test)

# Calculate the accuracy of the classifier
accuracy = accuracy_score(y_test, y_pred)

print("Accuracy:", accuracy)
```

```
Accuracy: 1.0
Accuracy: 0.9736842105263158
Accuracy: 0.9777777777777777
```

In [ ]:

In [ ]: