```python
import pandas as pd
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, classification_report

iris = load_iris()

X = iris.data          # Features
y = iris.target        # Labels

X_train, X_test, y_train, y_test = train_test_split(
    X, y, test_size=0.25, random_state=42
)

nb = GaussianNB()
nb.fit(X_train, y_train)
```

```
GaussianNB()
```

```python
y_pred = nb.predict(X_test)

print("Accuracy:", accuracy_score(y_test, y_pred))
print("\nClassification Report:\n",
      classification_report(y_test, y_pred, zero_division=0))
```

```
Accuracy: 1.0

Classification Report:
               precision    recall  f1-score   support

           0       1.00      1.00      1.00        15
           1       1.00      1.00      1.00        11
           2       1.00      1.00      1.00        12

    accuracy                           1.00        38
   macro avg       1.00      1.00      1.00        38
weighted avg       1.00      1.00      1.00        38
```

```python
# New flower sample: Sepal length, Sepal width, Petal length, Petal width
new_sample = [[6.1, 2.8, 4.7, 1.2]]

prediction = nb.predict(new_sample)

print("Predicted Flower:", iris.target_names[prediction[0]])
```

```
Predicted Flower: versicolor
```

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