```python
# Naïve Bayes Classifier using GaussianNB

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


# Load dataset

Iris = load_iris()

X = iris.data

Y = iris.target


# Split into training and testing sets

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, random_state=42)


# Create the model

Model = GaussianNB()


# Train the model

Model.fit(X_train, y_train)


# Predict on test set

Y_pred = model.predict(X_test)


# Evaluate the model
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Print("Predicted:", y_pred)

Print("Actual   :", y_test)

Print("\nAccuracy:", accuracy_score(y_test, y_pred))

Print("\nClassification Report:\n", classification_report(y_test, y_pred, target_names=iris.target_names))

OUTPUT :

Predicted: [1 0 2 1 1 0 0 2 1 1 2 2 0 0 0 2 1 0 2 1 2 0 0 2 2 2 2 0 0 0 0 1 1 1 2 0 2 0 0 2 2 1 2 0 0]

Actual   : [1 0 2 1 1 0 0 2 1 1 2 2 0 0 0 2 1 0 2 1 2 0 0 2 2 2 2 0 0 0 0 1 1 1 2 0 2 0 0 2 2 1 2 0 0]

Accuracy: 1.0

Classification Report:

	Precision	recall	f1-score	support
Setosa	1.00	1.00	1.00	16
Versicolor	1.00	1.00	1.00	14
Virginica	1.00	1.00	1.00	15
Accuracy			1.00	45
Macro avg	1.00	1.00	1.00	45
Weighted avg	1.00	1.00	1.00	45