EXPERIMENT – 6

PROGRAM:

```
from sklearn.naive_bayes import GaussianNB

from sklearn.metrics import confusion_matrix, accuracy_score

from sklearn.datasets import load_iris

from sklearn.model_selection import train_test_split

iris = load_iris()

X_train, X_test, y_train, y_test = train_test_split(iris.data, iris.target)

model = GaussianNB()

model.fit(X_train, y_train)

y_pred = model.predict(X_test)

print("Confusion Matrix:")

print(confusion_matrix(y_test, y_pred))

print("Accuracy:", accuracy_score(y_test, y_pred))
```