

EXP:6

```
from sklearn.datasets import load_iris  
from sklearn.model_selection import train_test_split  
from sklearn.naive_bayes import GaussianNB  
from sklearn.metrics import confusion_matrix, accuracy_score  
  
X, y = load_iris(return_X_y=True)  
  
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3)  
  
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))
```



```
IDLE Shell 3.13.7  
File Edit Shell Debug Options Window Help  
Python 3.13.7 (tags/v3.13.7:bceefc3, Aug 14 2025, 14:15:11) [MSC v.1944 64 bit (AMD64)] on win32  
Enter "help" below or click "Help" above for more information.  
>>> = RESTART: C:\Users\spark\OneDrive\Pictures\Documents\Desktop\ITA-0612\EXP-6.py  
Confusion Matrix:  
[[19  0  0]  
 [ 0 16  0]  
 [ 0  0 10]]  
Accuracy: 1.0  
>>>
```