

EXP:16

```
from sklearn.datasets import load_iris

from sklearn.model_selection import train_test_split

from sklearn.linear_model import LogisticRegression

from sklearn.neighbors import KNeighborsClassifier

from sklearn.naive_bayes import GaussianNB

from sklearn.metrics import accuracy_score

X,y = load_iris(return_X_y=True)

Xtr,Xte,ytr,yte = train_test_split(X,y,test_size=0.3)

lr = LogisticRegression(max_iter=200)

knn = KNeighborsClassifier()

nb = GaussianNB()

lr.fit(Xtr,ytr)

knn.fit(Xtr,ytr)

nb.fit(Xtr,ytr)

print("Logistic Regression Accuracy =", accuracy_score(yte,lr.predict(Xte)))

print("KNN Accuracy =", accuracy_score(yte,knn.predict(Xte)))

print("Naive Bayes Accuracy =", accuracy_score(yte,nb.predict(Xte)))
```



The screenshot shows an IDLE Python 3.13.7 shell window. The code from the previous block has been executed, and the output is displayed in the console. The output shows the accuracy scores for each model: Logistic Regression Accuracy is 0.9555555555555556, KNN Accuracy is 0.9555555555555556, and Naive Bayes Accuracy is 0.9333333333333333. The window title is 'IDLE Shell 3.13.7' and the status bar at the bottom indicates 'Ln: 8 Col: 0'.

```
IDLE Shell 3.13.7
Python 3.13.7 (tags/v3.13.7:bceelc3, 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-16.py
Logistic Regression Accuracy = 0.9555555555555556
KNN Accuracy = 0.9555555555555556
Naive Bayes Accuracy = 0.9333333333333333
>>>
```