

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 Shell window with the title "IDLE Shell 3.13.7". The menu bar includes File, Edit, Shell, Debug, Option, Window, and Help. The window displays the Python code from above and its execution results. The output shows the accuracy of three classifiers: Logistic Regression (0.9555555555555556), KNN (0.9555555555555556), and Naive Bayes (0.9333333333333333). The status bar at the bottom right indicates "Ln: 8 Col: 0".

```
>>> Python 3.13.7 (tags/v3.13.7:7bec1c3, 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
```