

EXP:15

```
from sklearn.datasets import load_iris  
from sklearn.naive_bayes import GaussianNB  
iris = load_iris()  
X = iris.data  
y = iris.target  
model = GaussianNB()  
model.fit(X,y)  
sl = float(input("Sepal Length: "))  
sw = float(input("Sepal Width: "))  
pl = float(input("Petal Length: "))  
pw = float(input("Petal Width: "))  
print("Iris Class =", model.predict([[sl,sw,pl,pw]])[0])
```

The screenshot shows the IDLE Shell 3.13.7 interface. The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The title bar says "IDLE Shell 3.13.7". The main window displays the Python code and its output. The code imports the Iris dataset, defines a GaussianNB model, fits it to the data, and then predicts the class of a new sample based on user input for Sepal Length, Sepal Width, Petal Length, and Petal Width. The output shows the predicted Iris class as 2.

```
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.  
>>> [REDACTED]  
>>> Sepal Length: 5.1  
Sepal Width: 2.3  
Petal Length: 4.1  
Petal Width: 2.3  
Iris Class = 2  
>>> |
```