

EXPERIMENT – 15

OUTPUT:

The screenshot shows the Microsoft Visual Studio Code interface. On the left is the sidebar with icons for file operations like Open, Save, Find, and Refresh. The main area has tabs for 'Welcome' and '15.py'. The code editor contains the following Python script:

```
D: > College > Machine Learning > Experiments > Code Files > 15.py > ...
1  from sklearn.naive_bayes import GaussianNB
2  from sklearn.datasets import load_iris
3  iris = load_iris()
4  X, y = iris.data, iris.target
5  model = GaussianNB()
6  model.fit(X, y)
7  new = []
8  for i in range(4):
9      new.append(float(input(f"Enter feature {i+1}: ")))
10 print("Predicted class:", iris.target_names[model.predict([new])[0]])
```

Below the code editor is the terminal window, which shows the command to run the script and the resulting output:

```
● PS D:\College\Machine Learning\Experiments\Code Files> & 'c:\Users\HARSHINI RN\AppData\Local\Microsoft\WindowsApps\python3.13.exe' 'c:\Users\HARSHINI RN\.vscode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '65100' '--' 'd:\College\Machine Learning\Experiments\Code Files\15.py'
Enter feature 1: 5.1
Enter feature 2: 3.5
Enter feature 3: 1.4
Enter feature 4: 0.2
Predicted class: setosa
○ PS D:\College\Machine Learning\Experiments\Code Files>
```

The status bar at the bottom indicates the following settings: Spaces: 4, UTF-8, Python, 3.13.9 (Microsoft Store), Go Live, and a bell icon.