EXPERIMENT – 3

PROGRAM:

```
from sklearn import datasets
from sklearn.tree import DecisionTreeClassifier, plot_tree
import matplotlib.pyplot as plt
iris = datasets.load_iris()
X = iris.data
y = iris.target
clf = DecisionTreeClassifier()
clf.fit(X, y)
new_sample = []
for i in range(4):
   new_sample.append(float(input(f"Enter feature {i+1}: ")))
prediction = clf.predict([new_sample])
print("Predicted class:", iris.target_names[prediction[0]])
```