EXPERIMENT – 16

PROGRAM:

```
from sklearn.tree import DecisionTreeClassifier

from sklearn.naive_bayes import GaussianNB

from sklearn.neighbors import KNeighborsClassifier

from sklearn.datasets import load_iris

from sklearn.model_selection import train_test_split

iris = load_iris()

X_train, X_test, y_train, y_test = train_test_split(iris.data, iris.target)

models = {'Decision Tree': DecisionTreeClassifier(), 'Naive Bayes': GaussianNB(), 'KNN':
KNeighborsClassifier()}

for name, model in models.items():

  model.fit(X_train, y_train)

  print(name, "Accuracy:", model.score(X_test, y_test))
```