

### PROGRAM 3:

**AIM :** Program to implement K-NN classification using any standard dataset available in public domain and find the accuracy of the algorithm.

#### PROGRAM:

```
from sklearn.neighbors import KNeighborsClassifier
from sklearn.model_selection import train_test_split
from sklearn.datasets import load_iris
from sklearn.metrics import accuracy_score
irisData=load_iris()
a=irisData.data
b=irisData.target
a_train,a_test,b_train,b_test
=train_test_split(a,b,test_size=0.6,random_state=10)
knn=KNeighborsClassifier(n_neighbors=3)
knn.fit(a_train,b_train)
print(knn.predict(a_test))
x=knn.predict(a_test)
z=accuracy_score(b_test,x)
print(z)
```

#### OUTPUT:

```
C:\Users\ajcemca\AppData\Local\Programs\Python\Python39\python.exe C:/Users/ajcemca/PycharmProjects/pythonProject/pythonProject1/knn.py
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0.9333333333333333
```

```
Process finished with exit code 0
```