

Program no:3

Aim : Perform to implement K-NN classification using standard dataset available in the public domain and find the accuracy of the algorithm

PROGRAM

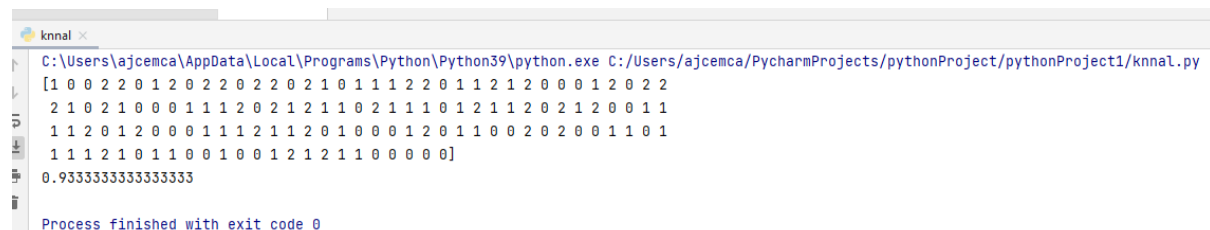
```
from sklearn.neighbors import KNeighborsClassifier
from sklearn.model_selection import train_test_split
from sklearn.datasets import load_iris
from sklearn.metrics import accuracy_score

irisData = load_iris()
x = irisData.data
y = irisData.target
x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.9, random_state=90)

knn = KNeighborsClassifier(n_neighbors=2)
knn.fit(x_train, y_train)

print(knn.predict(x_test))
w = knn.predict(x_test)
z = accuracy_score(y_test, w)
print(z)
```

OUTPUT



```
knnal
C:\Users\ajcemca\AppData\Local\Programs\Python\Python39\python.exe C:/Users/ajcemca/PycharmProjects/pythonProject/pythonProject1/knnal.py
[1 0 0 2 2 0 1 2 0 2 2 0 2 2 0 2 1 0 1 1 1 2 2 0 1 1 2 1 2 0 0 0 1 2 0 2 2
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0.9333333333333333
Process finished with exit code 0
```