Experiment No.: 4

Aim

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

CO2

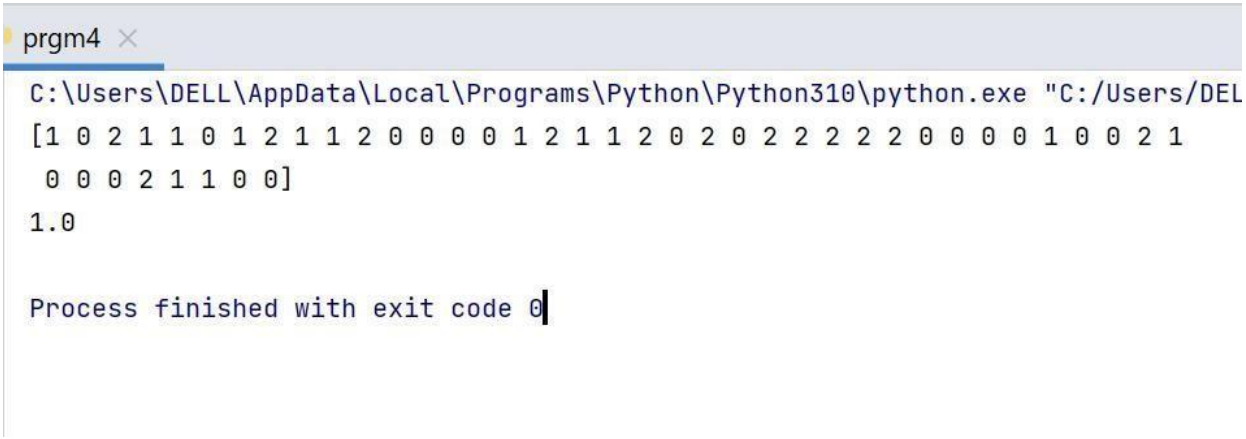
Use different packages and frameworks to implement regression and classification algorithms

Procedure

```
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=0.3,random_state=42)
knn=KNeighborsClassifier(n_neighbors=9)
knn.fit(a_train,b_train)
c=knn.predict(a_test)
acc=accuracy_score(b_test,c)
print(c)
print(acc)
```

Output Screenshot



Result

The program was executed and the result was successfully obtained. Thus CO2 was obtained.