```
import numpy as np
import pandas as pd
dataset = pd.read_csv("iris.csv")
X = dataset.iloc[:, :-1].values
y = dataset.iloc[:, 4].values
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.20)
from sklearn.neighbors import KNeighborsClassifier
classifier = KNeighborsClassifier(n_neighbors=5)
classifier.fit(X_train, y_train)
y_pred = classifier.predict(X_test)
from sklearn.metrics import classification_report
print(classification_report(y_test, y_pred))
from sklearn.metrics import accuracy_score
print ("Accuracy : ", accuracy_score(y_test, y_pred))
df = pd.DataFrame({'Real Values':y_test, 'Predicted Values':y_pred})
print(df)
new_test_point = np.array([[5.1, 3.5, 1.4, 0.2]])
prediction = classifier.predict(new_test_point)
print(f"\n Predicted class: {prediction[0]}")
  output
```

C:\Users\mlm\PycharmProjects\BIBIN\venv\Scripts\python.exe C:\Users\mlm\PycharmProjects\BIBIN\venv\knn.py

precision recall f1-score support

Setosa	1.00	1.00	1.00	10
Versicolor	1.00	1.00	1.00	10
Virginica	1.00	1.00	1.00	10

accuracy		1.00	30	
macro avg	1.00	1.00	1.00	30
weighted avg	1.00	1.00	1.00	30

Accuracy: 1.0

Real Values Predicted Values

_
0	Setosa	Setosa

- 1 Versicolor Versicolor
- 2 Versicolor Versicolor
- 3 Versicolor Versicolor
- 4 Setosa Setosa
- 5 Virginica Virginica
- 6 Virginica Virginica
- 7 Setosa Setosa
- 8 Setosa Setosa
- 9 Versicolor Versicolor
- 10 Setosa Setosa
- 11 Virginica Virginica
- 12 Setosa Setosa
- 13 Virginica Virginica
- 14 Setosa Setosa
- 15 Versicolor Versicolor
- 16 Virginica Virginica

17	Setosa	Setosa
18	Versicolor	Versicolor
19	Virginica	Virginica
20	Versicolor	Versicolor
21	Virginica	Virginica
22	Versicolor	Versicolor
23	Versicolor	Versicolor
24	Virginica	Virginica
25	Versicolor	Versicolor
26	Virginica	Virginica
27	Virginica	Virginica
28	Setosa	Setosa
29	Setosa	Setosa

Predicted class: Setosa

Process finished with exit code 0