Program:-

```
import numpy as np
import pandas as pd
import csv
from sklearn.neighbors import KNeighborsClassifier
from sklearn.model_selection import train_test_split
from sklearn.metrics import classification_report,confusion_matrix
df = pd.read_csv(r"/home/student/Desktop/sinan/Iris.csv")
print(df.head(0))
f = ['Id','SepalLengthCm','SepalWidthCm','PetalLengthCm','PetalWidthCm']
y = df.Species
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.25,random_state = 100)
clf = KNeighborsClassifier()
clf.fit(X_train, y_train)
y_pred = clf.predict(X_test)
accuracy = clf.score(X_test,y_test)
print("confusion matrix : \n",confusion_matrix(y_test,y_pred))
print("Classificataion report : \n",classification_report(y_test, y_pred))
print("Accuracy:", accuracy)
```

Output:-

<pre>(base) student@ Empty DataFrame</pre>		esktop/s	sinan\$ pyt	hon3 knn.py
confusion matri				
[[14 0 0]				
[0 9 1]				
[0 0 14]]				
Classificataion	n report :			
	precision	recall	f1-score	support
Iris-setosa	1 00	1 00	1 00	14
		1.00	1.00	
Iris-versicolor	1.00	0.90	0.95	10
Iris-virginica	0.93	1.00	0.97	14
accuracy			0.97	38
accuracy	0.00			
macro avg	0.98	0.97	0.97	38
weighted avg	0.98	0.97	0.97	38

Accuracy: 0.9736842105263158

(base) student@cseadmin:~/Desktop/sinan\$