```
import numpy as np
import pandas as pd
from sklearn.model selection import train test split
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import accuracy score
from matplotlib import pyplot as plt
data = {
    'acidity':[10,20,30,40,50,60,70,80,90,100],
      'alchol': [1,2,3,4,5,6,7,8,9,10],
      'quality': [0,0,0,0,0,1,1,1,1,1],
}
df = pd.DataFrame(data)
x = df[['acidity','alchol']]
y = df[['quality']]
k = 3
knn = KNeighborsClassifier(n neighbors=k)
knn.fit(x,y)
/usr/local/lib/python3.10/dist-packages/sklearn/neighbors/
classification.py:215: DataConversionWarning: A column-vector y was
passed when a 1d array was expected. Please change the shape of y to
(n samples,), for example using ravel().
  return self. fit(X, y)
KNeighborsClassifier(n neighbors=3)
new data = np.array([[50,5]])
prediction = knn.predict(new data)
if prediction[0] == 0:
  print("good")
elif prediction[0] == 1:
  print("bad")
good
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:439:
UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
 warnings.warn(
```