**PROGRAM NO:2 DATE:06-10-2022**

**AIM: Predict class label of a given data point using KNN.**

**Source code:**

from sklearn.neighbors import KNeighborsClassifier

x1=[7,7,3,1]

x2=[7,4,4,4]

target=['bad','bad','good','good']

from sklearn import preprocessing

le=preprocessing.LabelEncoder()

target\_encoded=le.fit\_transform(target)

print(target\_encoded)

features=zip(x1,x2)

features=list(features)

features

knn=KNeighborsClassifier(n\_neighbors=3)

knn.fit(features,target)

print(knn.predict([[3,7]]))

**output**

[0 0 1 1]

['good']