**Code 2**

import seaborn as sns

import pandas as pd

import numpy as np

df= sns.load\_dataset('iris')

df.head()

df

df.info()

df.describe()

df.shape

df.tail()

df['species'].unique()

df.isnull().sum()

df=df[df['species']!='setosa']

df.shape

df['species']=df['species'].map({'versicolor':0, 'virginica':1})

df.head()

df.tail()

X=df.iloc[:,:-1]

print(X)

y=df.iloc[:,-1]

print(y)

from sklearn.model\_selection import train\_test\_split

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, train\_size = 0.7, test\_size = 0.25, random\_state = 42)

from sklearn.neighbors import KNeighborsClassifier

knn= KNeighborsClassifier(n\_neighbors=5)

knn.fit(X\_train, y\_train)

y\_pred = knn.predict(X\_test)

print(y\_pred)

from sklearn.metrics import accuracy\_score, classification\_report, confusion\_matrix

print(confusion\_matrix(y\_pred, y\_test))

score = accuracy\_score(y\_pred, y\_test)

print(score)

print(classification\_report(y\_pred, y\_test))