import pandas as pd

iris = pd.read\_csv("iris.csv")

"""

We need to convert categorical data into numerical data,

if we need to develop any algorithm or do any analysis from the perspective of data modelling as we save space and processing time

"""

iris.head()

iris.tail()

#create a new variable varietyCode

iris["varietyCode"] = pd.factorize(iris.variety)[0]

iris.head()

iris.tail()

#to show the varieties and count of varieties

iris.variety.value\_counts()

#to show the value ofthe code assigned

iris.varietyCode.value\_counts()

# method II

from sklearn.preprocessing import LabelEncoder

le = LabelEncoder()

iris["Code\_le"] = le.fit\_transform(iris.variety)

iris.head()