# Import the required libraries

import pandas as pd

import numpy as np

import sklearn

from sklearn import datasets

iris = datasets.load\_iris()

iris

df = pd.DataFrame(iris['data'])

df.head()

df[4] = iris['target']

df.head()

# Adding column names

df.rename(columns = {0:'SepalLengthCm', 1:'SepalWidthCm', 2:'PetalLengthCm', 3:'PetalWidthCm', 4:'Species'}, inplace = True)

df.head()

df.describe()

df.shape

df.mean()

df.median()

# Calculated only for categorical data

df.Species.mode()

df.groupby(['Species']).count()

# standard Deviation

df.SepalLengthCm.std()

df.SepalWidthCm.std()

df.PetalLengthCm.std()

df.PetalWidthCm.std()