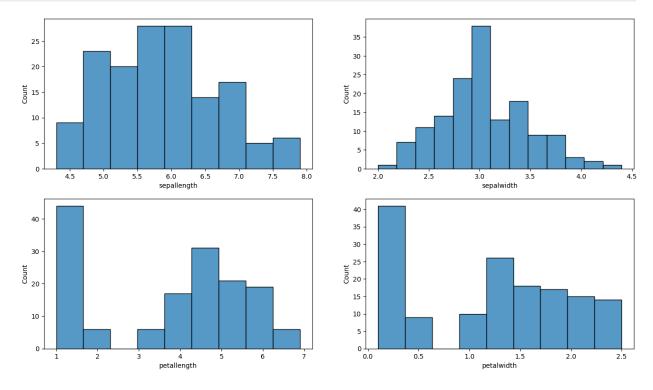
```
#Assignment 10
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
pip install seaborn==0.11.0
Defaulting to user installation because normal site-packages is not
writeable
Requirement already satisfied: seaborn==0.11.0 in c:\users\stev3raj\
appdata\roaming\python\python311\site-packages (0.11.0)
Requirement already satisfied: numpy>=1.15 in c:\users\stev3raj\
appdata\roaming\python\python311\site-packages (from seaborn==0.11.0)
(1.24.3)
Requirement already satisfied: scipy>=1.0 in c:\users\stev3raj\
appdata\roaming\python\python311\site-packages (from seaborn==0.11.0)
Reguirement already satisfied: pandas>=0.23 in c:\users\stev3raj\
appdata\roaming\python\python311\site-packages (from seaborn==0.11.0)
Requirement already satisfied: matplotlib>=2.2 in c:\users\stev3raj\
appdata\roaming\python\python311\site-packages (from seaborn==0.11.0)
(3.7.2)
Requirement already satisfied: contourpy>=1.0.1 in c:\users\stev3raj\
appdata\roaming\python\python311\site-packages (from matplotlib>=2.2-
>seaborn==0.11.0) (1.1.0)
Requirement already satisfied: cycler>=0.10 in c:\users\stev3raj\
appdata\roaming\python\python311\site-packages (from matplotlib>=2.2-
>seaborn==0.11.0) (0.11.0)
Requirement already satisfied: fonttools>=4.22.0 in c:\users\stev3raj\
appdata\roaming\python\python311\site-packages (from matplotlib>=2.2-
>seaborn==0.11.0) (4.42.0)
Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\stev3raj\
appdata\roaming\python\python311\site-packages (from matplotlib>=2.2-
>seaborn==0.11.0) (1.4.4)
Requirement already satisfied: packaging>=20.0 in c:\users\stev3raj\
appdata\roaming\python\python311\site-packages (from matplotlib>=2.2-
>seaborn==0.11.0) (23.1)
Requirement already satisfied: pillow>=6.2.0 in c:\users\stev3raj\
appdata\roaming\python\python311\site-packages (from matplotlib>=2.2-
>seaborn==0.11.0) (10.0.0)
Requirement already satisfied: pyparsing<3.1,>=2.3.1 in c:\users\
stev3raj\appdata\roaming\python\python311\site-packages (from
matplotlib >= 2.2 - seaborn == 0.11.0) (3.0.9)
Reguirement already satisfied: python-dateutil>=2.7 in c:\users\
stev3raj\appdata\roaming\python\python311\site-packages (from
matplotlib >= 2.2 - seaborn == 0.11.0) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in c:\users\stev3raj\
appdata\roaming\python\python311\site-packages (from pandas>=0.23-
```

```
>seaborn==0.11.0) (2023.3)
Requirement already satisfied: tzdata>=2022.1 in c:\users\stev3raj\
appdata\roaming\python\python311\site-packages (from pandas>=0.23-
>seaborn==0.11.0) (2023.3)
Requirement already satisfied: six>=1.5 in c:\users\stev3raj\appdata\
roaming\python\python311\site-packages (from python-dateutil>=2.7-
>matplotlib>=2.2->seaborn==0.11.0) (1.16.0)
Note: you may need to restart the kernel to use updated packages.
data = pd.read csv('iris.csv')
data.head()
   sepallength
                sepalwidth
                            petallength
                                          petalwidth
                                                            class
0
           5.1
                       3.5
                                     1.4
                                                 0.2
                                                      Iris-setosa
           4.9
                       3.0
1
                                     1.4
                                                 0.2
                                                      Iris-setosa
2
           4.7
                                     1.3
                                                 0.2
                       3.2
                                                      Iris-setosa
3
           4.6
                       3.1
                                     1.5
                                                 0.2
                                                      Iris-setosa
4
           5.0
                       3.6
                                     1.4
                                                 0.2
                                                      Iris-setosa
import matplotlib.pyplot as plt
fig, axes = plt.subplots(2, 2, figsize = (16, 9))
sns.histplot(data['sepallength'], ax = axes[0, 0])
sns.histplot(data['sepalwidth'], ax = axes[0, 1])
sns.histplot(data['petallength'], ax = axes[1, 0])
sns.histplot(data['petalwidth'], ax = axes[1, 1])
<Axes: xlabel='petalwidth', ylabel='Count'>
```



```
import matplotlib.pyplot as plt
fig, axes = plt.subplots(2, 2, figsize = (16, 9))
sns.boxplot(y = 'petallength', x = 'class', data = data, ax =
axes[0,0])
sns.boxplot(y = 'petalwidth', x = 'class', data = data, ax =
axes[0,1])
sns.boxplot(y = 'sepallength', x = 'class', data = data, ax =
axes[1,0])
sns.boxplot(y = 'sepalwidth', x = 'class', data = data, ax =
axes[1,1])

<a href="Axes: xlabel='class'"></a>, ylabel='sepalwidth'>
```

