import seaborn as sns

import matplotlib.pyplot as plt

import pandas as pd

df = pd.read\_csv('iris.csv')

print("======Data Headers Before Dropping Columns=======")

print(df.head(5))

df.describe()

df.info()

print("======Data Headers after Dropping Columns=======")

df.drop(['Sepal\_Length'], inplace=True,axis=1)

print(df.head(5))

"""ndf = pd.DataFrame(columns=['Class','Petal\_Width'])

ndf.groupby(['Class'],as\_index=False).mean()"""

plt.figure(figsize=[12,6]) # to create a wider graph\n",

ax = sns.countplot(data = df,hue = 'Class',palette='Set1',x = ' Sepal\_Width')

ax.set(title='Flowers of each specie',xlabel='Sepal Width',ylabel='No. of flowers')

plt.tight\_layout()

plt.show()

interval = (0,1,2,4)

category = ['<1','1 to 2','>2']

df['Petal\_Catg'] = pd.cut(df[' Petal\_Width'],interval,labels=category)

ax = sns.countplot(data = df,x = 'Petal\_Catg',hue='Class',palette='YlOrRd')

ax.set(title='Petal Width',xlabel='Category of Petals',ylabel='No. of flowers')

plt.show()

plt.figure(figsize=[12,6])

ax = sns.countplot(data = df[df['Class'] == 'Iris-setosa'],x = ' Sepal\_Width',palette='Set1')

ax.set(title='Iris-setosa',xlabel='Sepal Width',ylabel='No. of flowers')

plt.show()