Unit 2.3 Graded Assignment: Pandas

Instructions:

Download the Iris dataset from https://www.kaggle.com/datasets/uciml/iris and write a program that loads the CSV file and answers what is the average sepal length for each of three iris species.

Submitted by:

- 1. Ali Nasir (2303.KHI.DEG.012)
- 2. Saif ur Rehman (2303.KHI.DEG.007)

Solution:

- In this assignment w have first imported pandas library that I was for data cleaning and manipulation.
- Then we use pd.head() to see the first 5 rows of datasets.
- Finally we use group by operation to septate the unique values in the data set i.e. Irissetosa,iris-virginica,iris-versicolor the we find mean of Sepal length of each species.

```
data = pd.read_csv('Datasets/Iris.csv')
      data.sample(5)
           Id SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
                                                                                  Species
                                                                                Iris-setosa
                                                                         2.4 Iris-virginica
                                                                        1.5 Iris-versicolor
                                                                         1.5 Iris-versicolor
                           6.0
                                                                         1.5 Iris-versicolor
       dataFrame = data.groupby('Species')['SepalLengthCm'].mean()
       dataFrame
··· Species
   Iris-setosa
Iris-versicolor 5.936
Tris-virginica 6.588
   Iris-setosa
                         5.006
    Name: SepalLengthCm, dtype: float64
```