Import Essential Libraries

```
In []: import numpy as np
    import pandas as pd
    import seaborn as sns
    import matplotlib.pyplot as plt
    from sklearn.impute import SimpleImputer
    sns.set_theme(style="darkgrid", palette= 'muted')
    %matplotlib inline
```

· File path

```
In [ ]: file_path = '/content/drive/MyDrive/Datasets/Internship/Task-01/Iris.
csv'
```

· Convert CSV file to Pandas Dataframe

Out[]:

	ld	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
0	1	5.1	3.5	1.4	0.2	Iris-setosa
1	2	4.9	3.0	1.4	0.2	Iris-setosa
2	3	4.7	3.2	1.3	0.2	Iris-setosa
3	4	4.6	3.1	1.5	0.2	Iris-setosa
4	5	5.0	3.6	1.4	0.2	Iris-setosa

- · Basic Info about file
- · Check if there is any missing value exist or not

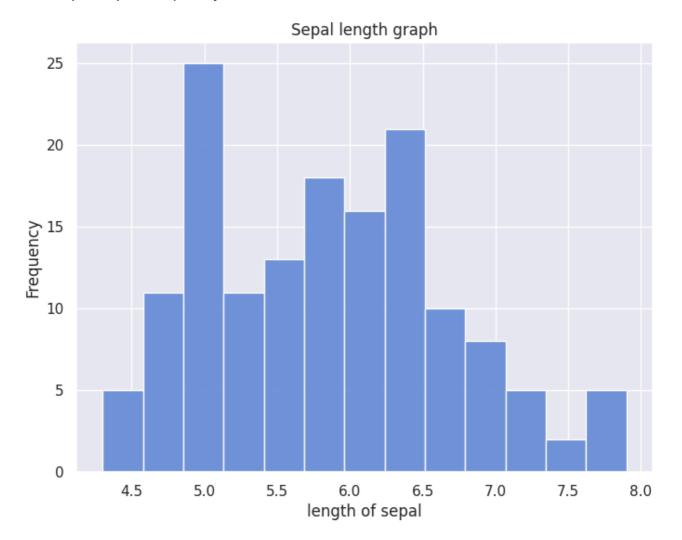
SepalLengthCm 150 non-null 1 float64 2 SepalWidthCm 150 non-null float64 3 PetalLengthCm 150 non-null float64 PetalWidthCm 150 non-null float64 4 5 Species 150 non-null object dtypes: float64(4), int64(1), object(1)

memory usage: 7.2+ KB

```
data.describe()
In [ ]:
Out[]:
                          Id SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
           count 150.000000
                                 150.000000
                                                150.000000
                                                              150.000000
                                                                            150.000000
                   75.500000
                                   5.843333
                                                 3.054000
                                                                3.758667
                                                                              1.198667
            mean
              std
                   43.445368
                                   0.828066
                                                 0.433594
                                                                1.764420
                                                                              0.763161
             min
                    1.000000
                                   4.300000
                                                 2.000000
                                                                1.000000
                                                                              0.100000
             25%
                   38.250000
                                   5.100000
                                                 2.800000
                                                                1.600000
                                                                              0.300000
             50%
                   75.500000
                                   5.800000
                                                 3.000000
                                                                4.350000
                                                                              1.300000
             75%
                  112.750000
                                                                5.100000
                                                                              1.800000
                                   6.400000
                                                 3.300000
                  150.000000
                                   7.900000
                                                 4.400000
                                                                6.900000
                                                                              2.500000
             max
           data.columns
Out[ ]: Index(['Id', 'SepalLengthCm', 'SepalWidthCm', 'PetalLengthCm', 'PetalWid
           thCm',
                    'Species'],
                  dtype='object')
```

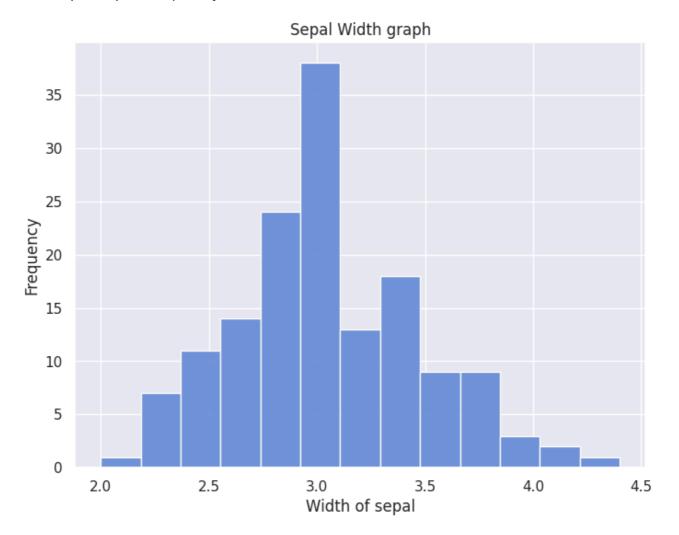
Visualize the data using Seaborn

Out[]: Text(0, 0.5, 'Frequency')

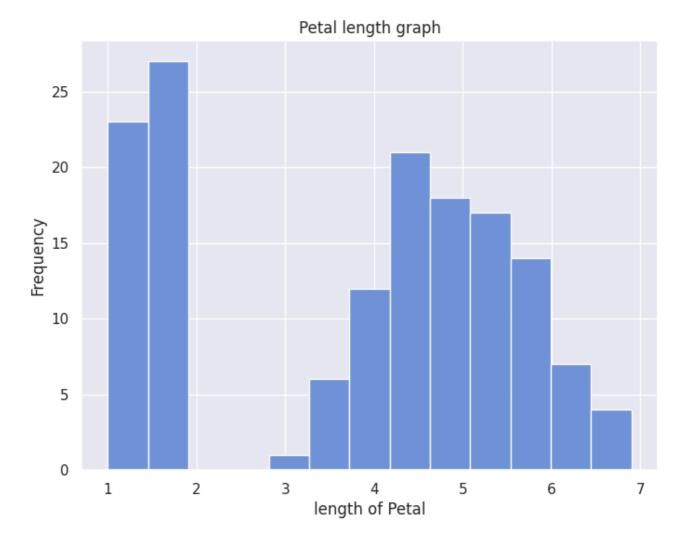


```
In []: fig, ax = plt.subplots(figsize=(8, 6))
    sns.histplot(data=data,ax=ax, x="SepalWidthCm", bins='sqrt')
    plt.title("Sepal Width graph")
    plt.xlabel("Width of sepal")
    plt.ylabel("Frequency")
```

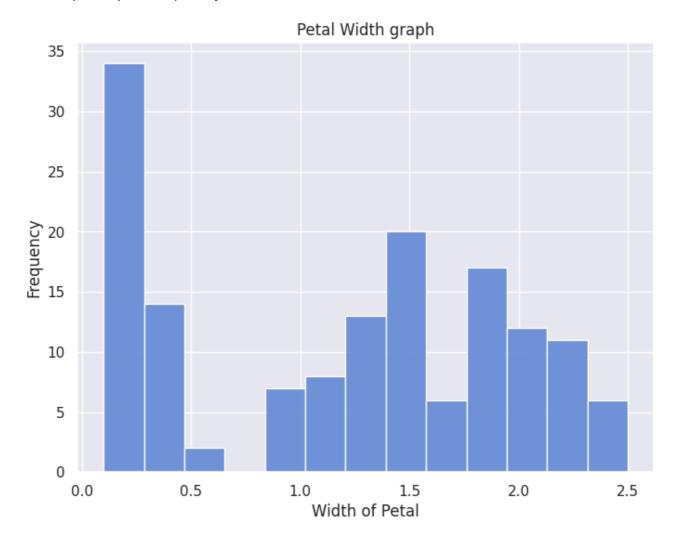
Out[]: Text(0, 0.5, 'Frequency')



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```
In [ ]:
```