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In [1]:   # Aim : To perform Data Acquisition of given data set using Pandas
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In [2]:   # Name : Kaushal A. Bharade
          # class : 3rd year
          # Section : A
          # Roll No. : 11
```

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In [3]:   import pandas as pd
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In [4]:   import os
```

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In [5]:   os.getcwd()
```

```
Out[5]:   'C:\\Users\\HP'
```

```
In [6]:   os.chdir ("C:\\Users\\HP\\Desktop\BDA")
```

```
In [7]:   df = pd.read_csv("iris.csv")
```

```
In [8]:   df.head()
```

Out[8]:

	Id	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

```
In [9]:   df.tail()
```

Out[9]:

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
145	146	6.7	3.0	5.2	2.3	Iris-virginica
146	147	6.3	2.5	5.0	1.9	Iris-virginica
147	148	6.5	3.0	5.2	2.0	Iris-virginica
148	149	6.2	3.4	5.4	2.3	Iris-virginica
149	150	5.9	3.0	5.1	1.8	Iris-virginica

```
In [10]:  df.info()

          <class 'pandas.core.frame.DataFrame'>
          RangeIndex: 150 entries, 0 to 149
          Data columns (total 6 columns):
           #   Column         Non-Null Count   Dtype
          ---  ------         --------------   -----
           0   Id             150 non-null     int64
           1   SepalLengthCm  150 non-null     float64
           2   SepalWidthCm   150 non-null     float64
           3   PetalLengthCm  150 non-null     float64
           4   PetalWidthCm   150 non-null     float64
           5   Species        150 non-null     object
          dtypes: float64(4), int64(1), object(1)
```

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In [11]: df.describe()
```

Out[11]:

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
count	150.000000	150.000000	150.000000	150.000000	150.000000
mean	75.500000	5.843333	3.054000	3.758667	1.198667
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	6.400000	3.300000	5.100000	1.800000
max	150.000000	7.900000	4.400000	6.900000	2.500000

```
In [12]: df.shape
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Out[12]: (150, 6)

```
In [13]: df.describe()
```

Out[13]:

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
count	150.000000	150.000000	150.000000	150.000000	150.000000
mean	75.500000	5.843333	3.054000	3.758667	1.198667
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	6.400000	3.300000	5.100000	1.800000
max	150.000000	7.900000	4.400000	6.900000	2.500000

```
In [ ]:
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