In [5]:
```
import pandas as pd
import numpy as np
from sklearn.preprocessing import MinMaxScaler

import matplotlib.pyplot as plt
import seaborn as sns
from scipy.stats import skew
```

In [6]:
```
df=pd.read_excel("assignment3.xlsx")
```

In [7]:
```
df.head()
```

Out[7]:

	Sex	Length	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shell weight	Rings
0	M	0.455	0.365	0.095	0.5140	0.2245	0.1010	0.150	15
1	M	0.350	0.265	0.090	0.2255	0.0995	0.0485	0.070	7
2	F	0.530	0.420	0.135	0.6770	0.2565	0.1415	0.210	9
3	M	0.440	0.365	0.125	0.5160	0.2155	0.1140	0.155	10
4	I	0.330	0.255	0.080	0.2050	0.0895	0.0395	0.055	7

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

Out[8]:

	Length	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shell weight	Ring
count	4177.000000	4177.000000	4177.000000	4177.000000	4177.000000	4177.000000	4177.000000	4177.00000
mean	0.523492	0.407463	0.139384	0.826514	0.358380	0.180098	0.238203	9.92650
std	0.119970	0.099153	0.041801	0.490133	0.221747	0.109528	0.139205	3.22750
min	0.075000	0.055000	0.000000	0.002000	0.001000	0.000500	0.001500	1.00000
25%	0.450000	0.350000	0.115000	0.441000	0.186000	0.093000	0.130000	8.00000
50%	0.545000	0.425000	0.140000	0.795500	0.334500	0.170000	0.230500	9.00000
75%	0.615000	0.480000	0.165000	1.149500	0.500000	0.252000	0.325500	11.00000
max	0.815000	0.650000	1.130000	2.825500	1.488000	0.760000	1.005000	29.00000

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

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4177 entries, 0 to 4176
Data columns (total 9 columns):
 #   Column          Non-Null Count  Dtype
---  ------          --------------  -----
 0   Sex             4177 non-null   object
 1   Length          4177 non-null   float64
 2   Diameter        4177 non-null   float64
 3   Height          4177 non-null   float64
 4   Whole weight    4177 non-null   float64
 5   Shucked weight  4177 non-null   float64
 6   Viscera weight  4177 non-null   float64
 7   Shell weight    4177 non-null   float64
 8   Rings           4177 non-null   int64
dtypes: float64(7), int64(1), object(1)
memory usage: 293.8+ KB
```

In [10]:
```
df.shape
```

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