import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from scipy.stats import stats

df = pd.read_csv("/content/abalone.csv")

df.head()

| | Sex | Length | Diameter | Height | Whole weight | Shucked weight | Viscera weight | Shell weight | Rings |
|---|-----|--------|----------|--------|-----------------|-------------------|-------------------|-----------------|-------|
| 0 | М | 0.455 | 0.365 | 0.095 | 0.5140 | 0.2245 | 0.1010 | 0.150 | 15 |
| 1 | М | 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 | М | 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 |

df.tail()

| | Sex | Length | Diameter | Height | Whole weight | Shucked weight | Viscera weight | Shell weight | Rings |
|------|-----|--------|----------|--------|-----------------|-------------------|-------------------|-----------------|-------|
| 4172 | F | 0.565 | 0.450 | 0.165 | 0.8870 | 0.3700 | 0.2390 | 0.2490 | 11 |
| 4173 | М | 0.590 | 0.440 | 0.135 | 0.9660 | 0.4390 | 0.2145 | 0.2605 | 10 |
| 4174 | М | 0.600 | 0.475 | 0.205 | 1.1760 | 0.5255 | 0.2875 | 0.3080 | 9 |
| 4175 | F | 0.625 | 0.485 | 0.150 | 1.0945 | 0.5310 | 0.2610 | 0.2960 | 10 |
| 4176 | М | 0.710 | 0.555 | 0.195 | 1.9485 | 0.9455 | 0.3765 | 0.4950 | 12 |

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 |
| 1.0 | (1 (4/7) | . 164/4) 1 | (4) |

dtypes: float64(7), int64(1), object(1)

memory usage: 293.8+ KB

df.describe()

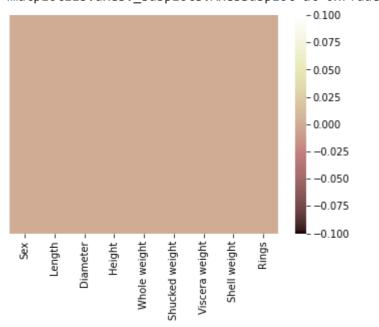
| | Length | Diameter | Height | Whole weight | Shucked weight | Viscera weight | |
|-------|-------------|-------------|-------------|-----------------|-------------------|-------------------|----|
| count | 4177.000000 | 4177.000000 | 4177.000000 | 4177.000000 | 4177.000000 | 4177.000000 | 41 |
| mean | 0.523992 | 0.407881 | 0.139516 | 0.828742 | 0.359367 | 0.180594 | |
| std | 0.120093 | 0.099240 | 0.041827 | 0.490389 | 0.221963 | 0.109614 | |
| min | 0.075000 | 0.055000 | 0.000000 | 0.002000 | 0.001000 | 0.000500 | |
| 25% | 0.450000 | 0.350000 | 0.115000 | 0.441500 | 0.186000 | 0.093500 | |
| 50% | 0.545000 | 0.425000 | 0.140000 | 0.799500 | 0.336000 | 0.171000 | |
| 75% | 0.615000 | 0.480000 | 0.165000 | 1.153000 | 0.502000 | 0.253000 | |
| 4 | | | | | | | • |

df.isnull().sum()

| Sex | 0 |
|----------------|---|
| Length | 0 |
| Diameter | 0 |
| Height | 0 |
| Whole weight | 0 |
| Shucked weight | 0 |
| Viscera weight | 0 |
| Shell weight | 0 |
| Rings | 0 |
| dtype: int64 | |

sns.heatmap(df.isnull(),yticklabels=False,cmap='pink')





df.corr()

| | Length | Diameter | Height | Whole weight | Shucked weight | Viscera weight | Shell weight | Rings |
|-----------------|----------|----------|----------|-----------------|-------------------|-------------------|-----------------|----------|
| Length | 1.000000 | 0.986812 | 0.827554 | 0.925261 | 0.897914 | 0.903018 | 0.897706 | 0.556720 |
| Diameter | 0.986812 | 1.000000 | 0.833684 | 0.925452 | 0.893162 | 0.899724 | 0.905330 | 0.574660 |
| Height | 0.827554 | 0.833684 | 1.000000 | 0.819221 | 0.774972 | 0.798319 | 0.817338 | 0.557467 |
| Whole weight | 0.925261 | 0.925452 | 0.819221 | 1.000000 | 0.969405 | 0.966375 | 0.955355 | 0.54039(|
| Shucked weight | 0.897914 | 0.893162 | 0.774972 | 0.969405 | 1.000000 | 0.931961 | 0.882617 | 0.420884 |
| Viscera | 0.903018 | 0.899724 | 0.798319 | 0.966375 | 0.931961 | 1.000000 | 0.907656 | 0.503819 |

```
df['Sex'].value_counts()
```

M 1528

I 1342

F 1307

Name: Sex, dtype: int64

df.head()

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

df.tail()

| | | Sex | Length | Diameter | Height | Whole weight | Shucked weight | Viscera weight | Shell weight | Rings |
|-------------------------------|------|-----|--------|----------|--------|-----------------|-------------------|-------------------|-----------------|-------|
| | 4172 | 2 | 0.565 | 0.450 | 0.165 | 0.8870 | 0.3700 | 0.2390 | 0.2490 | 11 |
| | 4173 | 0 | 0.590 | 0.440 | 0.135 | 0.9660 | 0.4390 | 0.2145 | 0.2605 | 10 |
| ADDING AGE COLUMN | | | | | | | | | | |
| | 447E | 2 | 0 605 | O 40E | 0 150 | 1 0015 | N E24N | 0 2640 | U ኃርድር | 10 |
| df['Age'] = df['Rings'] + 2.5 | | | | | | | | | | |

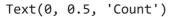
df.head()

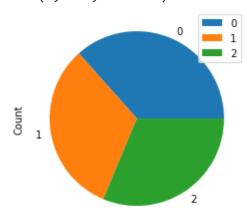
| | Sex | Length | Diameter | Height | Whole weight | Shucked weight | Viscera weight | Shell weight | Rings | Age |
|---|-----|--------|----------|--------|-----------------|-------------------|-------------------|-----------------|-------|------|
| 0 | 0 | 0.455 | 0.365 | 0.095 | 0.5140 | 0.2245 | 0.1010 | 0.150 | 15 | 17.5 |
| 1 | 0 | 0.350 | 0.265 | 0.090 | 0.2255 | 0.0995 | 0.0485 | 0.070 | 7 | 9.5 |
| 2 | 2 | 0.530 | 0.420 | 0.135 | 0.6770 | 0.2565 | 0.1415 | 0.210 | 9 | 11.5 |
| 3 | 0 | 0.440 | 0.365 | 0.125 | 0.5160 | 0.2155 | 0.1140 | 0.155 | 10 | 12.5 |
| 4 | 1 | 0.330 | 0.255 | 0.080 | 0.2050 | 0.0895 | 0.0395 | 0.055 | 7 | 9.5 |

df.columns

Data visualization

```
df['Sex'].value_counts().plot(kind='pie')
plt.legend()
plt.xlabel('Sex')
plt.ylabel('Count')
```



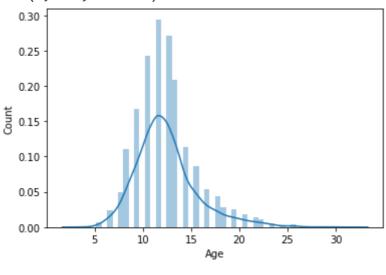


Sex

```
sns.distplot(df['Age'])
plt.xlabel('Age')
plt.ylabel('Count')
```

/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619: FutureWarning: warnings.warn(msg, FutureWarning)

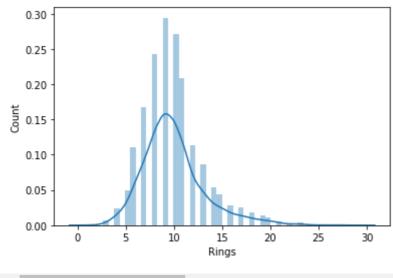
Text(0, 0.5, 'Count')



sns.distplot(df['Rings'])
plt.xlabel('Rings')
plt.ylabel('Count')

/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619: FutureWarning: warnings.warn(msg, FutureWarning)

Text(0, 0.5, 'Count')



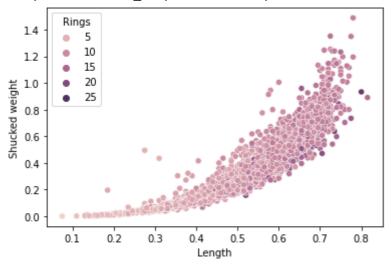
Bi-variate analysis

df.head()

| | Sex | Length | Diameter | Height | Whole weight | Shucked weight | Viscera weight | Shell weight | Rings | Age |
|---|-----|--------|----------|--------|-----------------|-------------------|-------------------|-----------------|-------|------|
| 0 | 0 | 0.455 | 0.365 | 0.095 | 0.5140 | 0.2245 | 0.1010 | 0.150 | 15 | 17.5 |
| 1 | 0 | 0.350 | 0.265 | 0.090 | 0.2255 | 0.0995 | 0.0485 | 0.070 | 7 | 9.5 |
| 2 | 2 | 0.530 | 0.420 | 0.135 | 0.6770 | 0.2565 | 0.1415 | 0.210 | 9 | 11.5 |
| 3 | 0 | 0.440 | 0.365 | 0.125 | 0.5160 | 0.2155 | 0.1140 | 0.155 | 10 | 12.5 |
| 4 | 1 | 0.330 | 0.255 | 0.080 | 0.2050 | 0.0895 | 0.0395 | 0.055 | 7 | 9.5 |

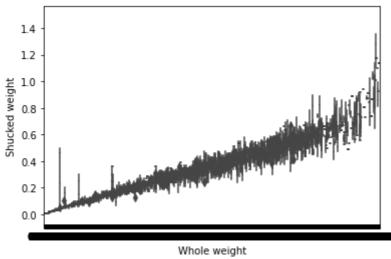
sns.scatterplot(data=df, x='Length', y='Shucked weight', hue='Rings',)





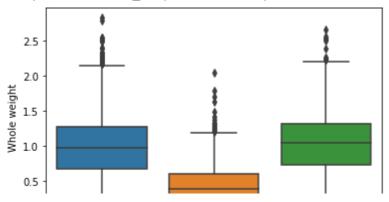
sns.boxplot(data=df, x='Whole weight', y='Shucked weight')

<matplotlib.axes._subplots.AxesSubplot at 0x7fadde8d9b50>



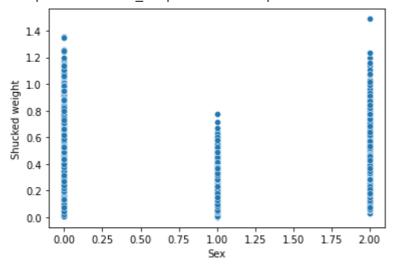
sns.boxplot(data=df, x='Sex', y='Whole weight')

<matplotlib.axes._subplots.AxesSubplot at 0x7fadd0312190>



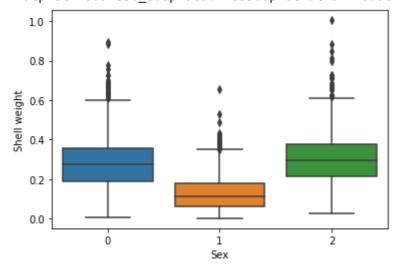
sns.scatterplot(data=df, x='Sex', y='Shucked weight')

<matplotlib.axes._subplots.AxesSubplot at 0x7fadd0445e90>



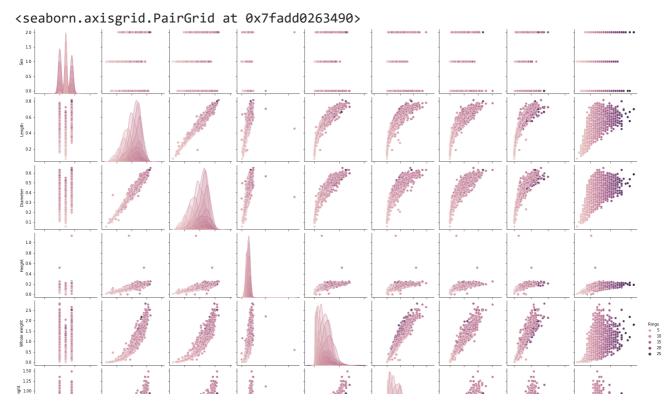
sns.boxplot(data=df, x='Sex', y='Shell weight')

<matplotlib.axes._subplots.AxesSubplot at 0x7fadd0176510>



Univariate analysis

sns.pairplot(data=df, hue='Rings')



df.describe()

| | Sex | Length | Diameter | Height | Whole weight | Shucked weight | |
|-------|-------------|-------------|-------------|-------------|-----------------|-------------------|----|
| count | 4177.000000 | 4177.000000 | 4177.000000 | 4177.000000 | 4177.000000 | 4177.000000 | 41 |
| mean | 0.947091 | 0.523992 | 0.407881 | 0.139516 | 0.828742 | 0.359367 | |
| std | 0.822240 | 0.120093 | 0.099240 | 0.041827 | 0.490389 | 0.221963 | |
| min | 0.000000 | 0.075000 | 0.055000 | 0.000000 | 0.002000 | 0.001000 | |
| 25% | 0.000000 | 0.450000 | 0.350000 | 0.115000 | 0.441500 | 0.186000 | |
| 50% | 1.000000 | 0.545000 | 0.425000 | 0.140000 | 0.799500 | 0.336000 | |
| 75% | 2.000000 | 0.615000 | 0.480000 | 0.165000 | 1.153000 | 0.502000 | |
| 4 | | | | | | | • |

df.corr()['Age']

| Sex | 0.034627 |
|-------------------|----------|
| Length | 0.556720 |
| Diameter | 0.574660 |
| Height | 0.557467 |
| Whole weight | 0.540390 |
| Shucked weight | 0.420884 |
| Viscera weight | 0.503819 |
| Shell weight | 0.627574 |
| Rings | 1.000000 |
| Age | 1.000000 |
| Name: Age, dtype: | float64 |

df.shape

(4177, 10)

Checking outliers for the data

df.head()

| | Sex | Length | Diameter | Height | Whole weight | Shucked weight | Viscera weight | Shell weight | Rings | Age | |
|---|-----|--------|----------|--------|-----------------|-------------------|-------------------|-----------------|-------|------|--|
| 0 | 0 | 0.455 | 0.365 | 0.095 | 0.5140 | 0.2245 | 0.1010 | 0.150 | 15 | 17.5 | |
| 1 | 0 | 0.350 | 0.265 | 0.090 | 0.2255 | 0.0995 | 0.0485 | 0.070 | 7 | 9.5 | |
| 2 | 2 | 0.530 | 0.420 | 0.135 | 0.6770 | 0.2565 | 0.1415 | 0.210 | 9 | 11.5 | |
| 3 | 0 | 0.440 | 0.365 | 0.125 | 0.5160 | 0.2155 | 0.1140 | 0.155 | 10 | 12.5 | |
| 4 | 1 | 0.330 | 0.255 | 0.080 | 0.2050 | 0.0895 | 0.0395 | 0.055 | 7 | 9.5 | |

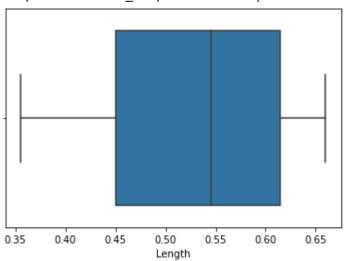
df.drop('Age',axis=1,inplace=True)

df.head()

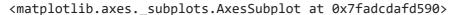
| | Sex | Length | Diameter | Height | Whole weight | Shucked weight | Viscera weight | Shell weight | Rings |
|---|-----|--------|----------|--------|-----------------|-------------------|-------------------|-----------------|-------|
| 0 | 0 | 0.455 | 0.365 | 0.095 | 0.5140 | 0.2245 | 0.1010 | 0.150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

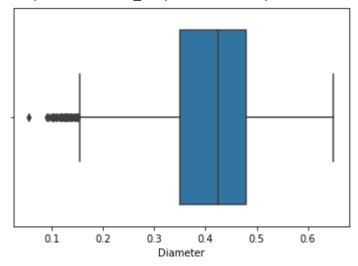
sns.boxplot(x=df['Length'])

<matplotlib.axes._subplots.AxesSubplot at 0x7fadcdee4410>



sns.boxplot(x=df['Diameter'])



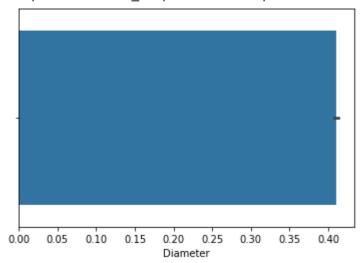


```
tenth_per = np.percentile(df['Diameter'], 10)
nine_per = np.percentile(df['Diameter'], 90)

df['Diameter'] = np.where(df['Diameter'] < tenth_per, tenth_per, df['Diameter'])
df['Diameter'] = np.where(df['Diameter'] > nine_per, nine_per, df['Diameter'])
```

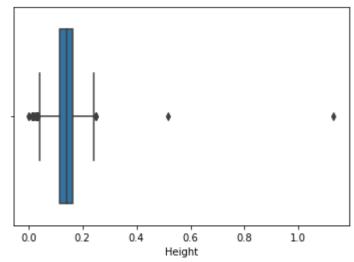
sns.barplot(x=df['Diameter'])

<matplotlib.axes._subplots.AxesSubplot at 0x7fadcc26a450>



sns.boxplot(x=df['Height'])

<matplotlib.axes._subplots.AxesSubplot at 0x7fadcc1e0210>



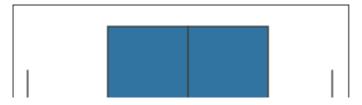
```
tenth_per = np.percentile(df['Height'], 10)
nine_per = np.percentile(df['Height'], 90)

df['Height'] = np.where(df['Height'] < tenth_per, tenth_per, df['Height'])

df['Height'] = np.where(df['Height'] > nine_per, nine_per, df['Height'])

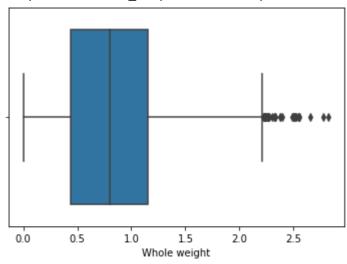
sns.boxplot(x=df['Height'])
```

<matplotlib.axes._subplots.AxesSubplot at 0x7fadcc14dfd0>



sns.boxplot(x=df['Whole weight'])

<matplotlib.axes._subplots.AxesSubplot at 0x7fadcc12d510>



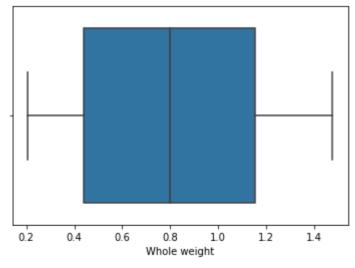
```
tenth_per = np.percentile(df['Whole weight'], 10)
nine_per = np.percentile(df['Whole weight'], 90)

df['Whole weight'] = np.where(df['Whole weight'] < tenth_per, tenth_per, df['Whole weight']</pre>
```

df['Whole weight'] = np.where(df['Whole weight'] > nine_per, nine_per, df['Whole weight'])

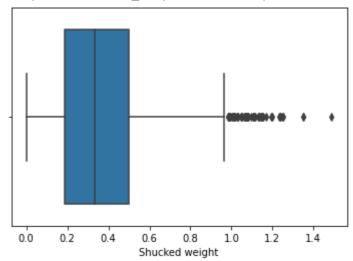
sns.boxplot(x=df['Whole weight'])

<matplotlib.axes._subplots.AxesSubplot at 0x7fadcc0a1410>



sns.boxplot(x=df['Shucked weight'])

<matplotlib.axes._subplots.AxesSubplot at 0x7fadcc013bd0>

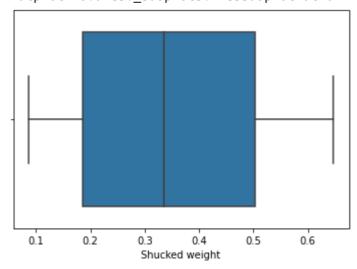


```
tenth_per = np.percentile(df['Shucked weight'], 10)
nine_per = np.percentile(df['Shucked weight'], 90)
```

```
df['Shucked weight'] = np.where(df['Shucked weight'] < tenth_per, tenth_per, df['Shucked w
df['Shucked weight'] = np.where(df['Shucked weight'] > nine_per, nine_per, df['Shucked weight']
```

sns.boxplot(x=df['Shucked weight'])

<matplotlib.axes._subplots.AxesSubplot at 0x7fadcbff6d10>



sns.boxplot(x=df['Viscera weight'])

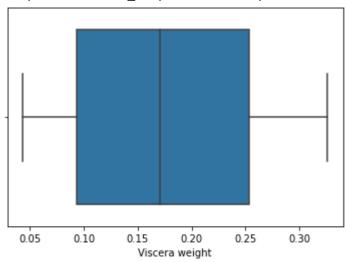
<matplotlib.axes._subplots.AxesSubplot at 0x7fadcbf57ed0>



tenth_per = np.percentile(df['Viscera weight'], 10)
nine_per = np.percentile(df['Viscera weight'], 90)

df['Viscera weight'] = np.where(df['Viscera weight'] < tenth_per, tenth_per, df['Viscera w
df['Viscera weight'] = np.where(df['Viscera weight'] > nine_per, nine_per, df['Viscera wei
sns.boxplot(x=df['Viscera weight'])

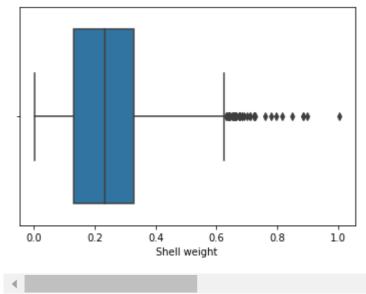
<matplotlib.axes._subplots.AxesSubplot at 0x7fadcbf47490>



sns.boxplot(df['Shell weight'])

/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43: FutureWarning: Pass FutureWarning

<matplotlib.axes._subplots.AxesSubplot at 0x7fadcbebb310>

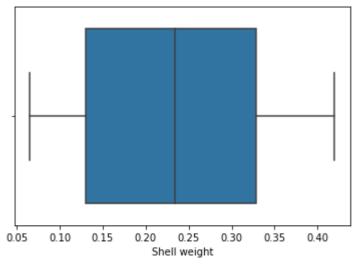


tenth_per = np.percentile(df['Shell weight'], 10)
nine per = np.percentile(df['Shell weight'], 90)

```
df['Shell weight'] = np.where(df['Shell weight'] < tenth_per, tenth_per, df['Shell weight'
df['Shell weight'] = np.where(df['Shell weight'] > nine_per, nine_per, df['Shell weight'])
sns.boxplot(df['Shell weight'])
```

/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43: FutureWarning: Pass FutureWarning

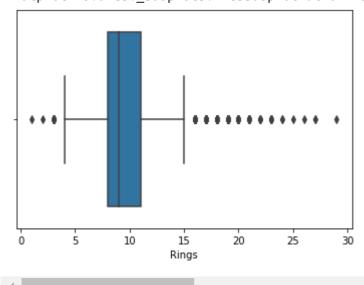
<matplotlib.axes._subplots.AxesSubplot at 0x7fadcbe27410>



sns.boxplot(df['Rings'])

/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43: FutureWarning: Pass FutureWarning

<matplotlib.axes._subplots.AxesSubplot at 0x7fadcbd99a90>



```
tenth_per = np.percentile(df['Rings'], 10)
```

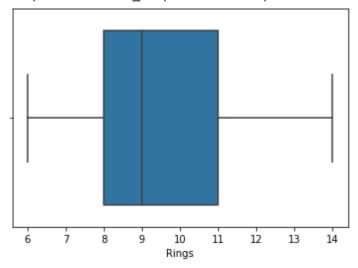
```
nine_per = np.percentile(df['Rings'], 90)
```

```
df['Rings'] = np.where(df['Rings'] < tenth_per, tenth_per, df['Rings'])
df['Rings'] = np.where(df['Rings'] > nine_per, nine_per, df['Rings'])
sns.boxplot(df['Rings'])
```

С→

/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43: FutureWarning: Pass FutureWarning

<matplotlib.axes._subplots.AxesSubplot at 0x7fadcbd140d0>



df.describe()

| | Sex | Length | Diameter | Height | Whole weight | Shucked weight | |
|-------|-------------|-------------|-------------|-------------|-----------------|-------------------|----|
| count | 4177.000000 | 4177.000000 | 4177.000000 | 4177.000000 | 4177.000000 | 4177.000000 | 41 |
| mean | 0.947091 | 0.527491 | 0.410466 | 0.139701 | 0.807958 | 0.348481 | |
| std | 0.822240 | 0.099873 | 0.083713 | 0.031559 | 0.418877 | 0.185356 | |
| min | 0.000000 | 0.355000 | 0.265000 | 0.090000 | 0.205000 | 0.086500 | |
| 25% | 0.000000 | 0.450000 | 0.350000 | 0.115000 | 0.441500 | 0.186000 | |
| 50% | 1.000000 | 0.545000 | 0.425000 | 0.140000 | 0.799500 | 0.336000 | |
| 75% | 2.000000 | 0.615000 | 0.480000 | 0.165000 | 1.153000 | 0.502000 | |
| 4 | | | | | | | • |

df.head()

| | Sex | Length | Diameter | Height | Whole weight | Shucked weight | Viscera weight | Shell weight | Rings | |
|---|-----|--------|----------|--------|-----------------|-------------------|-------------------|-----------------|-------|--|
| 0 | 0 | 0.455 | 0.365 | 0.095 | 0.5140 | 0.2245 | 0.1010 | 0.150 | 14.0 | |
| 1 | 0 | 0.355 | 0.265 | 0.090 | 0.2255 | 0.0995 | 0.0485 | 0.070 | 7.0 | |
| 2 | 2 | 0.530 | 0.420 | 0.135 | 0.6770 | 0.2565 | 0.1415 | 0.210 | 9.0 | |
| 3 | 0 | 0.440 | 0.365 | 0.125 | 0.5160 | 0.2155 | 0.1140 | 0.155 | 10.0 | |
| 4 | 1 | 0.355 | 0.265 | 0.090 | 0.2050 | 0.0895 | 0.0433 | 0.065 | 7.0 | |

Outlier treatment

$$df['Age'] = df['Rings'] + 2.5$$

df.head()

```
Viscera
                                            Whole
                                                     Shucked
                                                                           Shell
         Sex Length Diameter Height
                                                                                   Rings
                                                                                           Age
                                           weight
                                                      weight
                                                                 weight
                                                                          weight
      0
           0
                0.455
                          0.365
                                   0.095
                                           0.5140
                                                      0.2245
                                                                 0.1010
                                                                            0.150
                                                                                    14.0
                                                                                          16.5
      1
           0
                0.355
                          0.265
                                   0.090
                                           0.2255
                                                                 0.0485
                                                                                     7.0
                                                      0.0995
                                                                            0.070
                                                                                           9.5
      2
           2
                0.530
                          0.420
                                   0.135
                                           0.6770
                                                      0.2565
                                                                 0.1415
                                                                            0.210
                                                                                     9.0
                                                                                          11.5
      3
           0
                0.440
                          0.365
                                   0.125
                                           0.5160
                                                      0.2155
                                                                 0.1140
                                                                            0.155
                                                                                    10.0
                                                                                          12.5
      4
           1
                0.355
                          0.265
                                   0.090
                                           0.2050
                                                      0.0895
                                                                 0.0433
                                                                            0.065
                                                                                     7.0
                                                                                           9.5
X = df.drop('Age', axis=1)
y = df['Age']
from sklearn.model_selection import train_test_split
X_train,X_test,y_train,y_test = train_test_split(X, y, test_size=0.3, random_state=101)
X_train.shape
     (2923, 9)
X_test.shape
     (1254, 9)
y_train.shape
     (2923,)
y_test.shape
     (1254,)
from sklearn.linear_model import LinearRegression
model1 = LinearRegression()
model1.fit(X_train,y_train)
     LinearRegression()
y_pred1 = model1.predict(X_test)
y_pred1
```

array([12.5, 9.5, 12.5, ..., 8.5, 16.5, 12.5])

```
from sklearn.metrics import mean_squared_error, mean_absolute_error, r2_score
print(mean_absolute_error( y_test, y_pred1))
print(mean_squared_error(y_test, y_pred1))
     7.592721418808088e-16
     1.4544229767711159e-30
print(r2_score( y_test,y_pred1))
     1.0
from sklearn.ensemble import RandomForestRegressor
model2 = RandomForestRegressor(n_estimators=500)
model2.fit(X_train, y_train)
     RandomForestRegressor(n_estimators=500)
y_pred2 = model2.predict(X_test)
y_pred2
     array([12.5, 9.5, 12.5, ..., 8.5, 16.5, 12.5])
print(r2_score( y_test,y_pred2))
     1.0
```

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