


Assignment 3

1.import libraries

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings("ignore")
```

2.Load the dataset

```
from google.colab import files
upload = files.upload()
```



Choose Files

 No file chosen

Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.

Saving abalone.xlsx to abalone (?) .xlsx

```
age=pd.read_excel("abalone.xlsx")
```

3.Univariate Analysis

```
# display first 5 rows
```

```
age.head()
```

	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	15.0
1	M	0.350	0.265	0.090	0.2255	0.0995	0.0485	0.070	7.0
2	F	0.530	0.420	0.135	0.6770	0.2565	0.1415	0.210	9.0
3	M	0.440	0.365	0.125	0.5160	0.2155	0.1140	0.155	10.0
4	I	0.330	0.255	0.080	0.2050	0.0895	0.0395	0.055	7.0

```
# display last 5 rows
```

```
age.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	11.0
4173	M	0.590	0.440	0.135	0.9660	0.4390	0.2145	0.2605	10.0

information of datatypes

age.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4177 entries, 0 to 4176
Data columns (total 10 columns):
#   Column              Non-Null Count  Dtype
---  -
0    00                  4177 non-null  int64
1    Sex                 4177 non-null  object
2    Length              4177 non-null  float64
3    Diameter            4177 non-null  float64
4    Height              4177 non-null  float64
5    Whole weight        4177 non-null  float64
6    Shucked weight      4177 non-null  float64
7    Viscera weight       4177 non-null  float64
8    Shell weight        4177 non-null  float64
9    Rings               4177 non-null  float64
dtypes: float64(8), int64(1), object(1)
memory usage: 326.5+ KB
```

#calculate mean of 'Rings'

age['Rings'].mean()

9.933684462532918

#calculate median of 'Rings'

age['Rings'].median()

9.0

#calculate standard deviation of 'Rings'

age['Rings'].std()

3.2241690320681284

#create frequency table for 'Rings'

age['Rings'].value_counts()

```
9.0    689
10.0   634
8.0    568
11.0   487
7.0    391
12.0   267
6.0    259
```

13.0	203
14.0	126
5.0	115
15.0	103
16.0	67
17.0	58
4.0	57
18.0	42
19.0	32
20.0	26
3.0	15
21.0	14
23.0	9
22.0	6
27.0	2
24.0	2
1.0	1
26.0	1
29.0	1
2.0	1
25.0	1

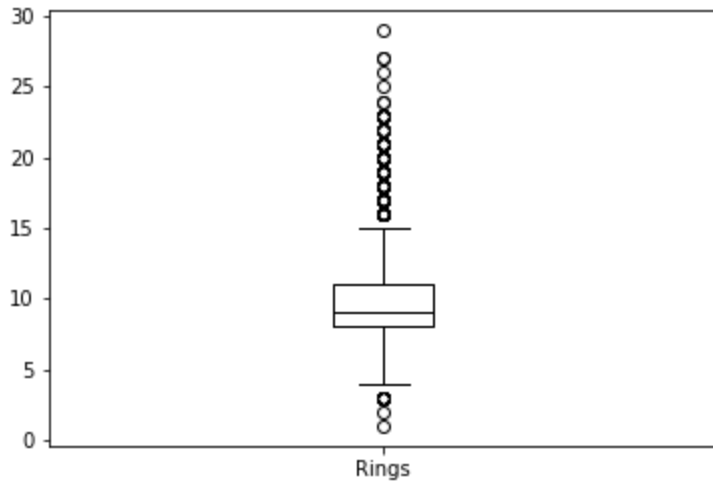
Name: Rings, dtype: int64

```
#create a boxplot for the 'Rings' variable
```

```
import matplotlib.pyplot as plt
```

```
age.boxplot(column=['Rings'], grid=False, color='black')
```

<matplotlib.axes._subplots.AxesSubplot at 0x7f90ffad0d50>

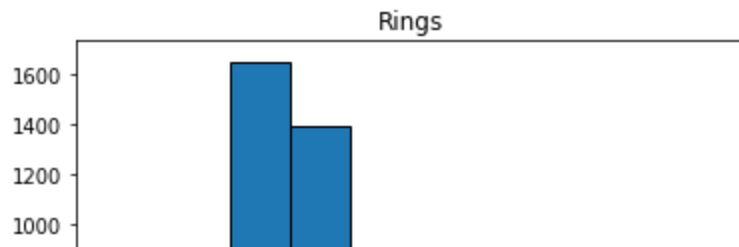


```
# to create a histogram for the 'Rings' variable
```

```
import matplotlib.pyplot as plt
```

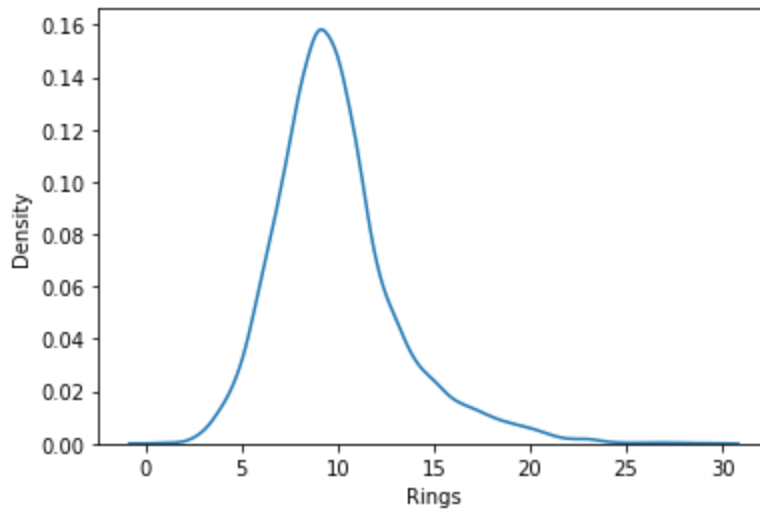
```
age.hist(column='Rings', grid=False, edgecolor='black')
```

```
array([[<matplotlib.axes._subplots.AxesSubplot object at 0x7f90ffa5a8d0>]],
      dtype=object)
```



```
#to create a density curve for the 'Rings' variable
sns.kdeplot(age['Rings'])
```

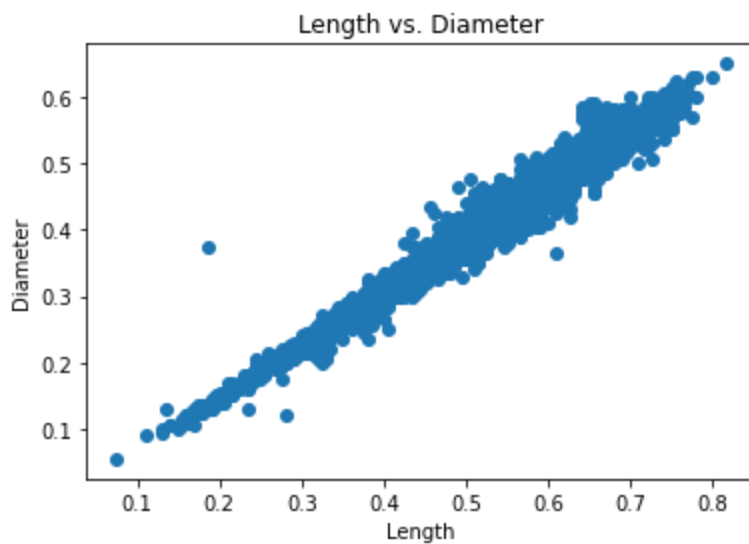
```
<matplotlib.axes._subplots.AxesSubplot at 0x7f90ffb2d1d0>
```



4.Bi-Variate Analysis

```
#create scatterplot of Length vs. Diameter
plt.scatter(age.Length, age.Diameter)
plt.title('Length vs. Diameter')
plt.xlabel('Length')
plt.ylabel('Diameter')
```

```
Text(0, 0.5, 'Diameter')
```



```
#create correlation matrix
age.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	0.540390
Shucked weight	0.897914	0.893162	0.774972	0.969405	1.000000	0.931961	0.882617	0.420884
Viscera weight	0.903018	0.899724	0.798319	0.966375	0.931961	1.000000	0.907656	0.503819

```
import statsmodels.api as sm
```

```
#define response variable
y = age['Length']
```

```
#define explanatory variable
x = age[['Diameter']]
```

```
#add constant to predictor variables
x = sm.add_constant(x)
```

```
#fit linear regression model
model = sm.OLS(y, x).fit()
```

```
#view model summary
print(model.summary())
```

OLS Regression Results						
=====						
Dep. Variable:	Length	R-squared:	0.974			
Model:	OLS	Adj. R-squared:	0.974			
Method:	Least Squares	F-statistic:	1.552e+05			
Date:	Tue, 04 Oct 2022	Prob (F-statistic):	0.00			
Time:	06:31:12	Log-Likelihood:	10533.			
No. Observations:	4177	AIC:	-2.106e+04			
Df Residuals:	4175	BIC:	-2.105e+04			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	0.0369	0.001	29.006	0.000	0.034	0.039

Diameter	1.1942	0.003	393.902	0.000	1.188	1.200
=====						
Omnibus:	1320.186	Durbin-Watson:	1.740			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	44409.185			
Skew:	-0.851	Prob(JB):	0.00			
Kurtosis:	18.883	Cond. No.	11.8			
=====						

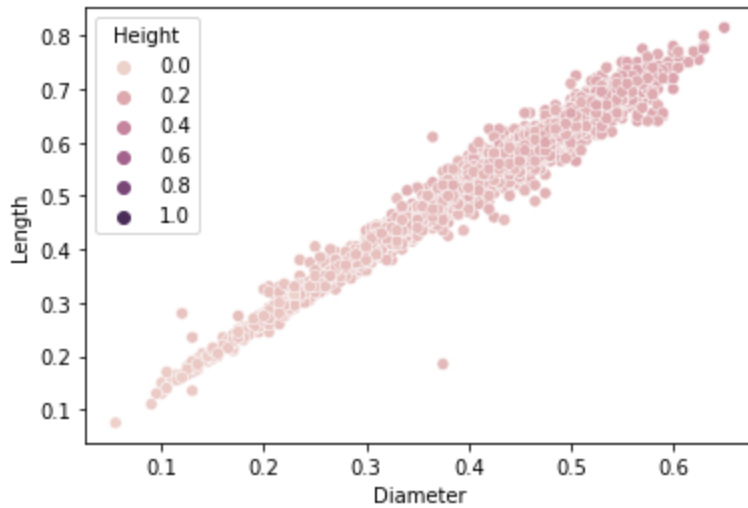
Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

5.Multi-Variate Analysis

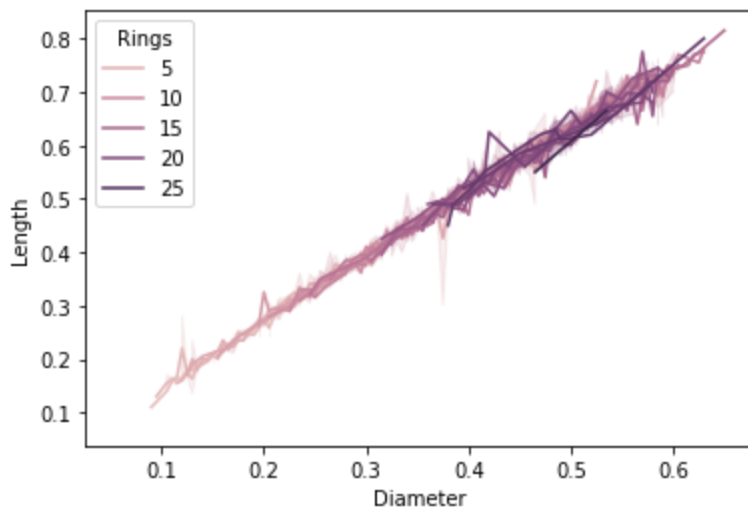
```
sns.scatterplot(age["Diameter"],age["Length"],hue=age["Height"])
```

<matplotlib.axes._subplots.AxesSubplot at 0x7f90f477ba90>



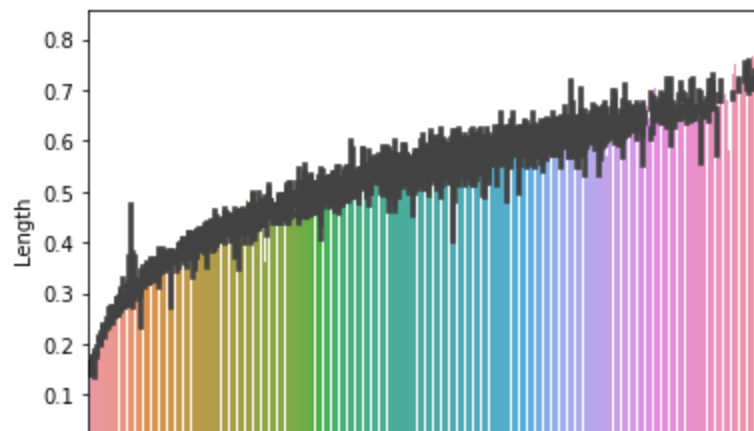
```
sns.lineplot(age["Diameter"],age["Length"],hue=age["Rings"])
```

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```
sns.barplot(age["Whole weight"],age["Length"])
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f90f34f5e50>
```



```
age.skew()
```

00	0.000000
Length	-0.639873
Diameter	-0.609198
Height	3.128817
Whole weight	0.530959
Shucked weight	0.719098
Viscera weight	0.591852
Shell weight	0.620927
Rings	1.114102
dtype:	float64

```
plt.pie(age["Diameter"], labels=age["Length"], autopct="%0.0f%%")
```

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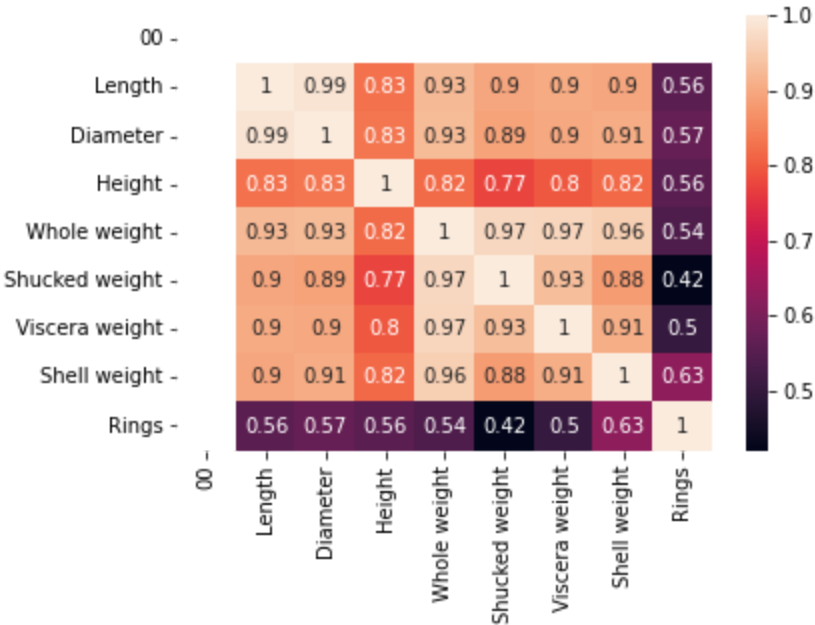
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```




```
sns.heatmap(age.corr(),annot=True)
```

<matplotlib.axes._subplots.AxesSubplot at 0x7f90e5f50dd0>

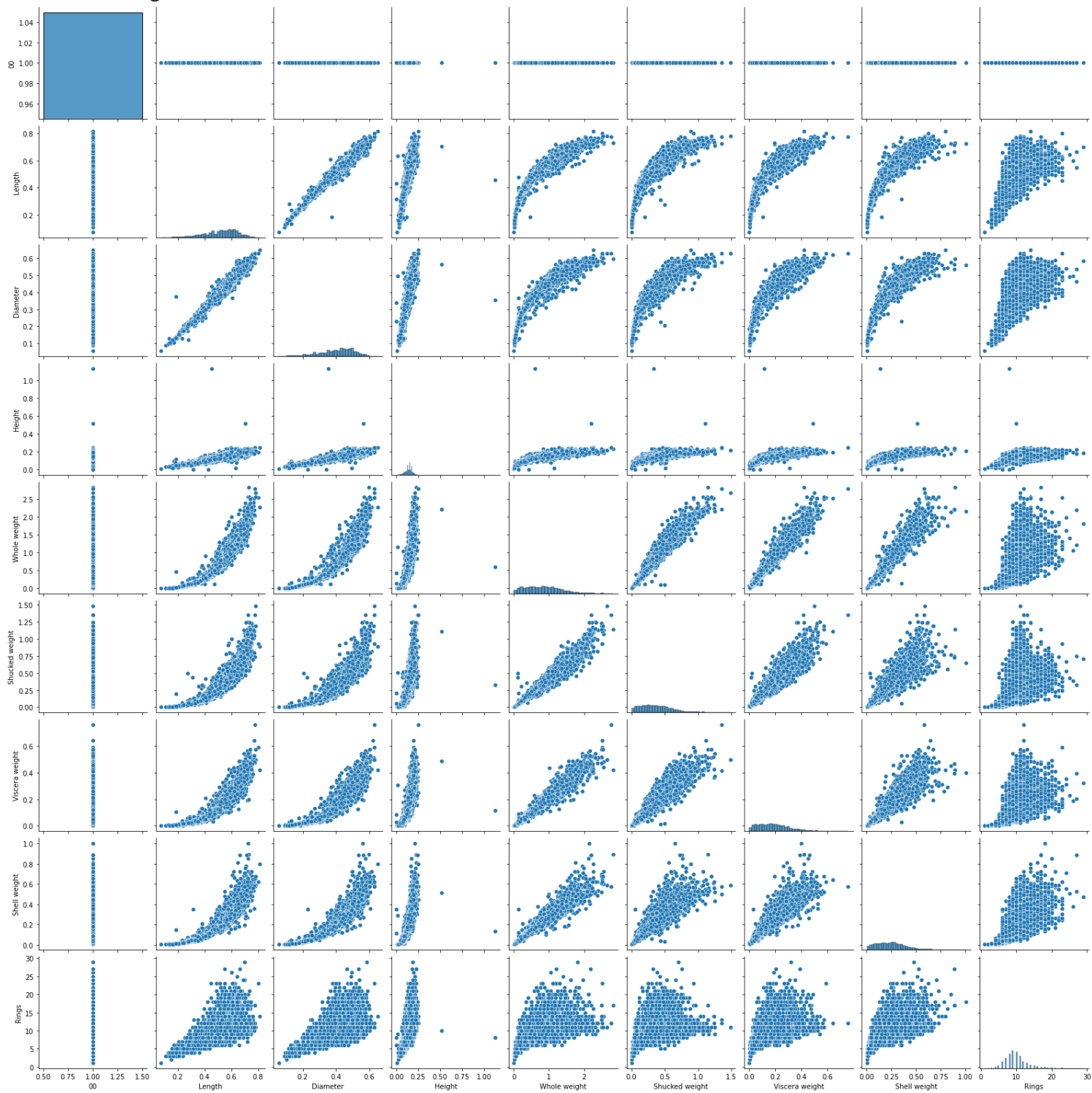


```
age.corr().Length.sort_values()
```

```
Rings          0.556720
Height         0.827554
Shell weight   0.897706
Shucked weight 0.897914
Viscera weight 0.903018
Whole weight   0.925261
Diameter       0.986812
Length         1.000000
00             NaN
Name: Length, dtype: float64
```

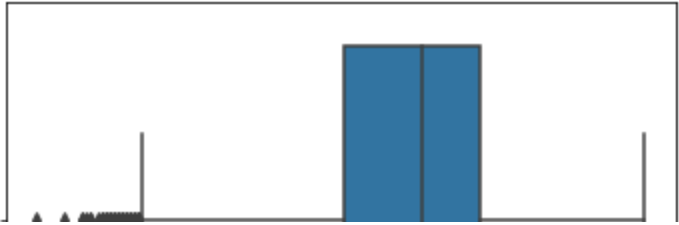
```
sns.pairplot(age)
```

```
<seaborn.axisgrid.PairGrid at 0x7f90e6191b90>
```



```
sns.boxplot(age["Length"])
```

<matplotlib.axes._subplots.AxesSubplot at 0x7f90e1532790>



age.corr()

	00	Length	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shell weight	Rings
00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Length	NaN	1.000000	0.986812	0.827554	0.925261	0.897914	0.903018	0.897706	0.556720
Diameter	NaN	0.986812	1.000000	0.833684	0.925452	0.893162	0.899724	0.905330	0.574660
Height	NaN	0.827554	0.833684	1.000000	0.819221	0.774972	0.798319	0.817338	0.557467
Whole weight	NaN	0.925261	0.925452	0.819221	1.000000	0.969405	0.966375	0.955355	0.540390
Shucked weight	NaN	0.897914	0.893162	0.774972	0.969405	1.000000	0.931961	0.882617	0.420884
Viscera weight	NaN	0.903018	0.899724	0.798319	0.966375	0.931961	1.000000	0.907656	0.503819

6.Performing descriptive statistics on the dataset

#Create a DataFrame
df=pd.DataFrame(age)

df.sum()

00	4177
Sex	MMFMIIFFMFFMFMFFMIFMMIIFFFFMFFFFMFFMFFMFFMFFIIII...
Length	2188.715
Diameter	1703.72
Height	582.76
Whole weight	3461.656
Shucked weight	1501.078
Viscera weight	754.3395
Shell weight	997.5965
Rings	41493.0
dtype:	object

df.sum(1)

0	17.9045
1	9.1485
2	12.3700
3	12.9305
4	9.0540

```
...
4172    14.9250
4173    14.0450
4174    13.5770
4175    14.4425
4176    18.2255
Length: 4177, dtype: float64
```

df.mean()

```
00          1.000000
Length      0.523992
Diameter    0.407881
Height      0.139516
Whole weight 0.828742
Shucked weight 0.359367
Viscera weight 0.180594
Shell weight 0.238831
Rings       9.933684
dtype: float64
```

df.std()

```
00          0.000000
Length      0.120093
Diameter    0.099240
Height      0.041827
Whole weight 0.490389
Shucked weight 0.221963
Viscera weight 0.109614
Shell weight 0.139203
Rings       3.224169
dtype: float64
```

df.min()

```
00          1
Sex          F
Length       0.075
Diameter     0.055
Height       0.0
Whole weight 0.002
Shucked weight 0.001
Viscera weight 0.0005
Shell weight 0.0015
Rings        1.0
dtype: object
```

df.max()

```
00          1
Sex          M
Length       0.815
Diameter     0.65
Height       1.13
Whole weight 2.8255
Shucked weight 1.488
```

```
Viscera weight    0.76
Shell weight      1.005
Rings             29.0
dtype: object
```

df[min]-df[max]

```
0      0.4860
1      0.7745
2      0.3230
3      0.4840
4      0.7950
...
4172   0.1130
4173   0.0340
4174  -0.1760
4175  -0.0945
4176  -0.9485
Length: 4177, dtype: float64
```

df.describe()

	00	Length	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shucked weight with shell
count	4177.0	4177.000000	4177.000000	4177.000000	4177.000000	4177.000000	4177.000000	4177.000000
mean	1.0	0.523992	0.407881	0.139516	0.828742	0.359367	0.180594	0.238514
std	0.0	0.120093	0.099240	0.041827	0.490389	0.221963	0.109614	0.139514
min	1.0	0.075000	0.055000	0.000000	0.002000	0.001000	0.000500	0.001000
25%	1.0	0.450000	0.350000	0.115000	0.441500	0.186000	0.093500	0.130000
50%	1.0	0.545000	0.425000	0.140000	0.799500	0.336000	0.171000	0.234000
75%	1.0	0.615000	0.480000	0.165000	1.153000	0.502000	0.253000	0.329000

df.describe(include=['object'])

	Sex
count	4177
unique	3
top	M
freq	1528

7.Check for Missing value and deal with them

missing value

df.fillna(value = 100)

	00	Sex	Length	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shell weight	Rings
0	1	M	0.455	0.365	0.095	0.5140	0.2245	0.1010	0.1500	15.0
1	1	M	0.350	0.265	0.090	0.2255	0.0995	0.0485	0.0700	7.0
2	1	F	0.530	0.420	0.135	0.6770	0.2565	0.1415	0.2100	9.0
3	1	M	0.440	0.365	0.125	0.5160	0.2155	0.1140	0.1550	10.0
4	1	I	0.330	0.255	0.080	0.2050	0.0895	0.0395	0.0550	7.0
...
4172	1	F	0.565	0.450	0.165	0.8870	0.3700	0.2390	0.2490	11.0
4173	1	M	0.590	0.440	0.135	0.9660	0.4390	0.2145	0.2605	10.0
4174	1	M	0.600	0.475	0.205	1.1760	0.5255	0.2875	0.3080	9.0
4175	1	F	0.625	0.485	0.150	1.0945	0.5310	0.2610	0.2960	10.0
4176	1	M	0.710	0.555	0.195	1.9485	0.9455	0.3765	0.4950	12.0

4177 rows × 10 columns

df

	00	Sex	Length	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shell weight	Rings
0	1	M	0.455	0.365	0.095	0.5140	0.2245	0.1010	0.1500	15.0
1	1	M	0.350	0.265	0.090	0.2255	0.0995	0.0485	0.0700	7.0
2	1	F	0.530	0.420	0.135	0.6770	0.2565	0.1415	0.2100	9.0
3	1	M	0.440	0.365	0.125	0.5160	0.2155	0.1140	0.1550	10.0
4	1	I	0.330	0.255	0.080	0.2050	0.0895	0.0395	0.0550	7.0
...
4172	1	F	0.565	0.450	0.165	0.8870	0.3700	0.2390	0.2490	11.0
4173	1	M	0.590	0.440	0.135	0.9660	0.4390	0.2145	0.2605	10.0
4174	1	M	0.600	0.475	0.205	1.1760	0.5255	0.2875	0.3080	9.0
4175	1	F	0.625	0.485	0.150	1.0945	0.5310	0.2610	0.2960	10.0
4176	1	M	0.710	0.555	0.195	1.9485	0.9455	0.3765	0.4950	12.0

4177 rows × 10 columns

df["Length"].mean()

0.5239920995930094

df["Length"].median()

0.545

```
df["Length"].fillna(df["Length"].mean(),inplace = True)
```

df

	00	Sex	Length	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shell weight	Rings
0	1	M	0.455	0.365	0.095	0.5140	0.2245	0.1010	0.1500	15.0
1	1	M	0.350	0.265	0.090	0.2255	0.0995	0.0485	0.0700	7.0
2	1	F	0.530	0.420	0.135	0.6770	0.2565	0.1415	0.2100	9.0
3	1	M	0.440	0.365	0.125	0.5160	0.2155	0.1140	0.1550	10.0
4	1	I	0.330	0.255	0.080	0.2050	0.0895	0.0395	0.0550	7.0
...
4172	1	F	0.565	0.450	0.165	0.8870	0.3700	0.2390	0.2490	11.0
4173	1	M	0.590	0.440	0.135	0.9660	0.4390	0.2145	0.2605	10.0
4174	1	M	0.600	0.475	0.205	1.1760	0.5255	0.2875	0.3080	9.0
4175	1	F	0.625	0.485	0.150	1.0945	0.5310	0.2610	0.2960	10.0
4176	1	M	0.710	0.555	0.195	1.9485	0.9455	0.3765	0.4950	12.0

4177 rows × 10 columns

```
df["Diameter"].fillna(df["Diameter"].median(),inplace = True)
```

df

```
00 Sex Length Diameter Height Whole weight Shucked weight Viscera weight Shell weight Rings
data = {"Name":["rahul","azhar","rachana"],
        "Age":[20,21,23],
        "Degree":["BE","BE","BCA"],
        "Percentage":[60,70,80]}
0.2 0.1 M 0.110 0.265 0.125 0.5160 0.2155 0.1110 0.1550 10.0
data = pd.DataFrame(data = data,index = ["row1","row2","row3"])
data
```

	Name	Age	Degree	Percentage
row1	rahul	20	BE	60
row2	azhar	21	BE	70
row3	rachana	23	BCA	80

```
0.175 0.1 M 0.210 0.255 0.105 1.0105 0.2155 0.2705 0.1050 10.0
data = data.replace("BCA",np.nan)
data
```

	Name	Age	Degree	Percentage
row1	rahul	20	BE	60
row2	azhar	21	BE	70
row3	rachana	23	NaN	80

```
data["Degree"] = data["Degree"].fillna(data["Degree"].mode()[0])
```

data

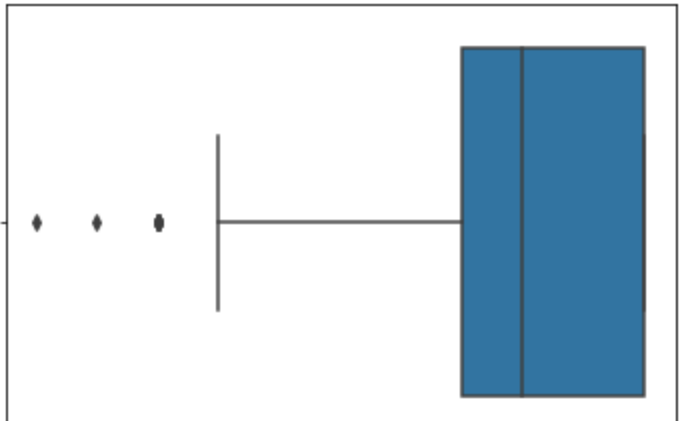
	Name	Age	Degree	Percentage
row1	rahul	20	BE	60
row2	azhar	21	BE	70
row3	rachana	23	BE	80

8.Find outlier and replace them outlier

```
df["Rings"] = np.where(df["Rings"] > 10,11,df["Rings"])

sns.boxplot(df["Rings"])
```

<matplotlib.axes._subplots.AxesSubplot at 0x7f90df625e10>



9.Check for categorical columns and perform encoding

```
df.head(2)
```

	00	Sex	Length	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shell weight	Rings
0	1	M	0.455	0.365	0.095	0.5140	0.2245	0.1010	0.15	11.0
1	1	M	0.350	0.265	0.090	0.2255	0.0995	0.0485	0.07	7.0

```
df["Sex"].replace({"F":0, "M":1},inplace = True)
```

```
df.head(10)
```

	00	Sex	Length	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shell weight	Rings
0	1	1	0.455	0.365	0.095	0.5140	0.2245	0.1010	0.150	11.0
1	1	1	0.350	0.265	0.090	0.2255	0.0995	0.0485	0.070	7.0
2	1	0	0.530	0.420	0.135	0.6770	0.2565	0.1415	0.210	9.0
3	1	1	0.440	0.365	0.125	0.5160	0.2155	0.1140	0.155	10.0
4	1	I	0.330	0.255	0.080	0.2050	0.0895	0.0395	0.055	7.0
5	1	I	0.425	0.300	0.095	0.3515	0.1410	0.0775	0.120	8.0
6	1	0	0.530	0.415	0.150	0.7775	0.2370	0.1415	0.330	11.0
7	1	0	0.545	0.425	0.125	0.7680	0.2940	0.1495	0.260	11.0
8	1	1	0.475	0.370	0.125	0.5095	0.2165	0.1125	0.165	9.0
9	1	0	0.550	0.440	0.150	0.8945	0.3145	0.1510	0.320	11.0

```
df["Length"].unique()
```

```
array([0.455, 0.35 , 0.53 , 0.44 , 0.33 , 0.425, 0.545, 0.475, 0.55 ,
       0.525, 0.43 , 0.49 , 0.535, 0.47 , 0.5 , 0.355, 0.365, 0.45 ,
       0.38 , 0.565, 0.615, 0.56 , 0.58 , 0.59 , 0.605, 0.575, 0.68 ,
```

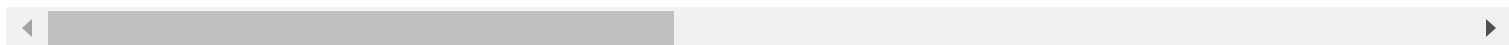
```
0.665, 0.705, 0.465, 0.54 , 0.24 , 0.205, 0.21 , 0.39 , 0.46 ,
0.325, 0.52 , 0.4 , 0.485, 0.405, 0.445, 0.245, 0.505, 0.595,
0.31 , 0.555, 0.57 , 0.6 , 0.62 , 0.625, 0.695, 0.36 , 0.51 ,
0.435, 0.495, 0.385, 0.515, 0.37 , 0.27 , 0.375, 0.7 , 0.71 ,
0.265, 0.305, 0.345, 0.65 , 0.28 , 0.175, 0.17 , 0.635, 0.645,
0.61 , 0.725, 0.235, 0.315, 0.225, 0.64 , 0.63 , 0.585, 0.42 ,
0.335, 0.415, 0.275, 0.295, 0.075, 0.13 , 0.11 , 0.16 , 0.23 ,
0.3 , 0.32 , 0.655, 0.66 , 0.2 , 0.165, 0.19 , 0.74 , 0.34 ,
0.675, 0.745, 0.685, 0.69 , 0.67 , 0.29 , 0.26 , 0.395, 0.41 ,
0.22 , 0.255, 0.735, 0.155, 0.48 , 0.195, 0.25 , 0.18 , 0.15 ,
0.215, 0.73 , 0.715, 0.765, 0.185, 0.285, 0.72 , 0.75 , 0.755,
0.78 , 0.815, 0.14 , 0.77 , 0.775, 0.76 , 0.135, 0.8 ])
```

```
data_main = pd.get_dummies(df,columns=["Length"])
```

```
data_main.head(10)
```

	00	Sex	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shell weight	Rings	Length_0.075	...	Length_6
0	1	1	0.365	0.095	0.5140	0.2245	0.1010	0.150	11.0	0	...	
1	1	1	0.265	0.090	0.2255	0.0995	0.0485	0.070	7.0	0	...	
2	1	0	0.420	0.135	0.6770	0.2565	0.1415	0.210	9.0	0	...	
3	1	1	0.365	0.125	0.5160	0.2155	0.1140	0.155	10.0	0	...	
4	1	1	0.255	0.080	0.2050	0.0895	0.0395	0.055	7.0	0	...	
5	1	1	0.300	0.095	0.3515	0.1410	0.0775	0.120	8.0	0	...	
6	1	0	0.415	0.150	0.7775	0.2370	0.1415	0.330	11.0	0	...	
7	1	0	0.425	0.125	0.7680	0.2940	0.1495	0.260	11.0	0	...	
8	1	1	0.370	0.125	0.5095	0.2165	0.1125	0.165	9.0	0	...	
9	1	0	0.440	0.150	0.8945	0.3145	0.1510	0.320	11.0	0	...	

10 rows × 143 columns



10.Split the data dependent and independent variables

```
df.head(0)
```

Sex	Length	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shell weight	Rings
-----	--------	----------	--------	--------------	----------------	----------------	--------------	-------

```
x = df.iloc[:,1:2]
```

```
x
```

	Length
0	0.455
1	0.350
2	0.530
3	0.440
4	0.330
...	...
4172	0.565
4173	0.590
4174	0.600
4175	0.625
4176	0.710

y = df.iloc[:,1:]

y

	Length	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shell weight	Rings
0	0.455	0.365	0.095	0.5140	0.2245	0.1010	0.1500	15.0
1	0.350	0.265	0.090	0.2255	0.0995	0.0485	0.0700	7.0
2	0.530	0.420	0.135	0.6770	0.2565	0.1415	0.2100	9.0
3	0.440	0.365	0.125	0.5160	0.2155	0.1140	0.1550	10.0
4	0.330	0.255	0.080	0.2050	0.0895	0.0395	0.0550	7.0
...
4172	0.565	0.450	0.165	0.8870	0.3700	0.2390	0.2490	11.0
4173	0.590	0.440	0.135	0.9660	0.4390	0.2145	0.2605	10.0
4174	0.600	0.475	0.205	1.1760	0.5255	0.2875	0.3080	9.0
4175	0.625	0.485	0.150	1.0945	0.5310	0.2610	0.2960	10.0
4176	0.710	0.555	0.195	1.9485	0.9455	0.3765	0.4950	12.0

4177 rows × 8 columns

11.Split the data into training and testing

from sklearn.model_selection import train_test_split

df = df.rename(columns = {'fit': 'fit_feature'})

```
x_train,x_test,y_train,y_test = train_test_split(x,y,test_size = 0.2,random_state = 0)
```

```
x_train.shape,x_test.shape,y_train.shape,y_test.shape
```

```
((3341, 1), (836, 1), (3341, 8), (836, 8))
```

```
x_test
```

	Length
668	0.550
1580	0.500
3784	0.620
463	0.220
2615	0.645
...	...
575	0.610
3231	0.410
1084	0.445
290	0.540
2713	0.250

836 rows × 1 columns

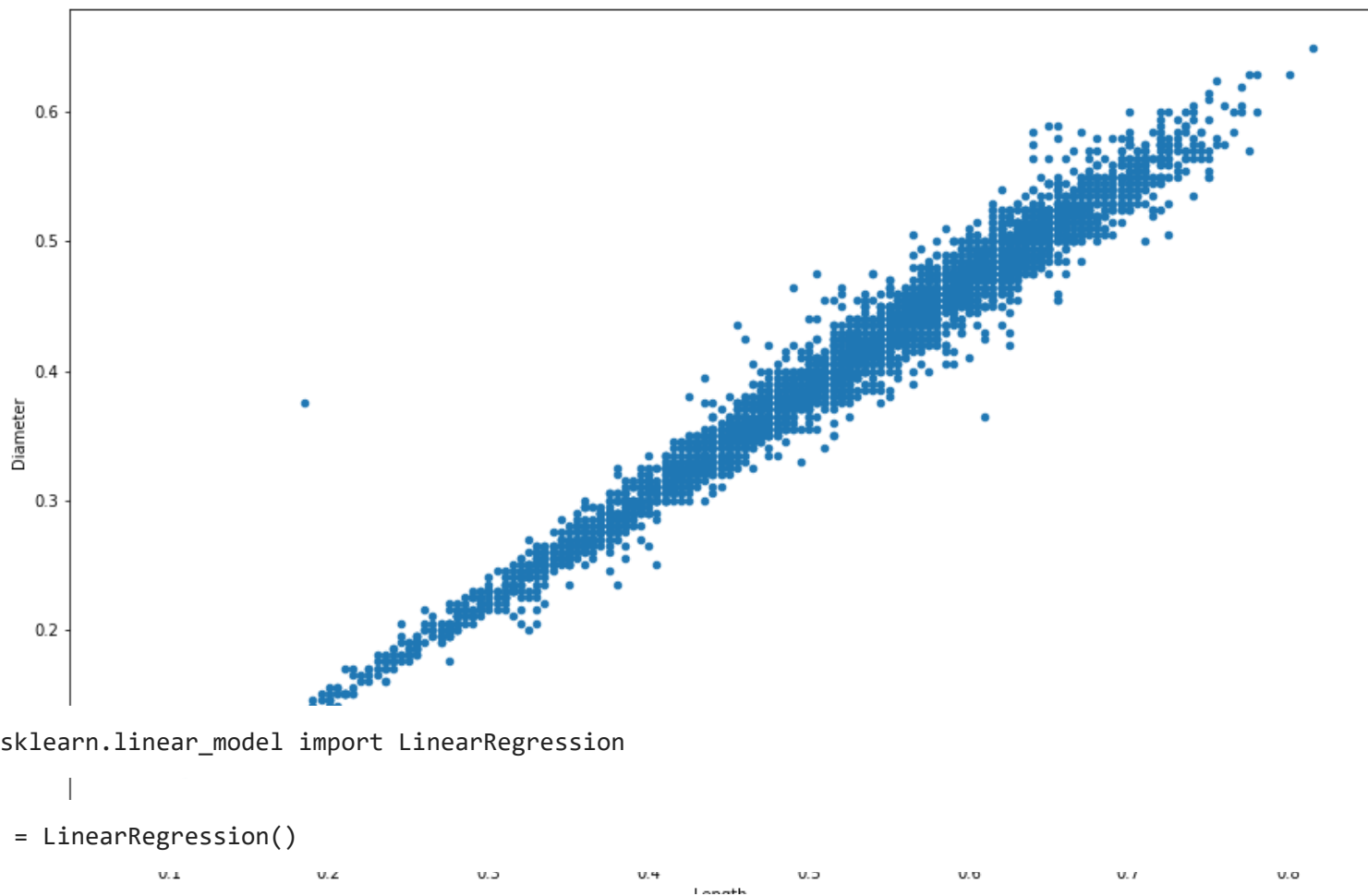
Build the Model

```
from sklearn.linear_model import LinearRegression
```

```
lr = LinearRegression()
```

```
df.plot.scatter("Length","Diameter", figsize=(15,10))
```

<matplotlib.axes._subplots.AxesSubplot at 0x7fc33e0a5290>



```
from sklearn.linear_model import LinearRegression
```

```
model = LinearRegression()
```

```
model.fit(x,y)
```

```
LinearRegression()
```

```
predict = model.predict(x)
```

```
predict
```

```
array([[ 0.455      ,  0.35162091,  0.11963095, ...,  0.12372858,
         0.16704094,  8.90250019],
       [ 0.35      ,  0.26599754,  0.08936702, ...,  0.03718493,
         0.0577829 ,  7.33312705],
       [ 0.53      ,  0.41278046,  0.14124804, ...,  0.18554547,
         0.2450824 , 10.02348101],
       ...,
       [ 0.6       ,  0.46986271,  0.161424  , ...,  0.24324124,
         0.31792109, 11.06972977],
       [ 0.625     ,  0.49024923,  0.1686297 , ...,  0.26384687,
         0.34393491, 11.44339005],
       [ 0.71      ,  0.55956339,  0.19312907, ...,  0.33390601,
         0.43238189, 12.71383498]])
```

Train the model

```
# Using DataFrame.sample() Method by random_state arg.
train=df.sample(frac=0.8,random_state=200)
```


train

	Sex	Length	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shell weight	Rings
3384	F	0.305	0.225	0.070	0.1485	0.0585	0.0335	0.0450	7.0
8	M	0.475	0.370	0.125	0.5095	0.2165	0.1125	0.1650	9.0
2639	I	0.460	0.370	0.120	0.5335	0.2645	0.1080	0.1345	6.0
2589	M	0.575	0.450	0.155	0.9480	0.4290	0.2060	0.2590	7.0
1270	I	0.470	0.355	0.180	0.4800	0.2055	0.1050	0.1505	8.0
...
2288	I	0.330	0.265	0.090	0.1800	0.0680	0.0360	0.0600	6.0
1236	I	0.375	0.275	0.090	0.2180	0.0930	0.0405	0.0755	6.0
3753	I	0.475	0.360	0.110	0.4520	0.1910	0.0990	0.1300	8.0
3461	F	0.625	0.495	0.160	1.1115	0.4495	0.2825	0.3450	11.0
79	F	0.615	0.475	0.170	1.1025	0.4695	0.2355	0.3450	14.0

3342 rows × 9 columns

Test the Model

```
np.random.seed(2)
from sklearn.metrics import r2_score

x = np.random.normal(3, 1, 100)
y = np.random.normal(150, 40, 100) / x

train_x = x[:80]
train_y = y[:80]

test_x = x[80:]
test_y = y[80:]

mymodel = np.poly1d(np.polyfit(train_x, train_y, 4))

r2 = r2_score(test_y, mymodel(test_x))

print(r2)
```

0.8086921460343566

Measure the performance using Metrics

```
import tracemalloc
import pandas as pd
```

```
import dask.dataframe as dd
import time

def tracing_start():
    tracemalloc.stop()
    print("nTracing Status : ", tracemalloc.is_tracing())
    tracemalloc.start()
    print("Tracing Status : ", tracemalloc.is_tracing())
def tracing_mem():
    first_size, first_peak = tracemalloc.get_traced_memory()
    peak = first_peak/(1024*1024)
    print("Peak Size in MB - ", peak)

tracing_start()
start = time.time()
sq_list1 = [elem + elem**2 for elem in range(1,1000)]
#print(sq_list1)
end = time.time()
print("time elapsed {} milli seconds".format((end-start)*1000))
tracing_mem()

nTracing Status :  False
Tracing Status :  True
time elapsed 3.298521041870117 milli seconds
Peak Size in MB -  0.04827404022216797
```