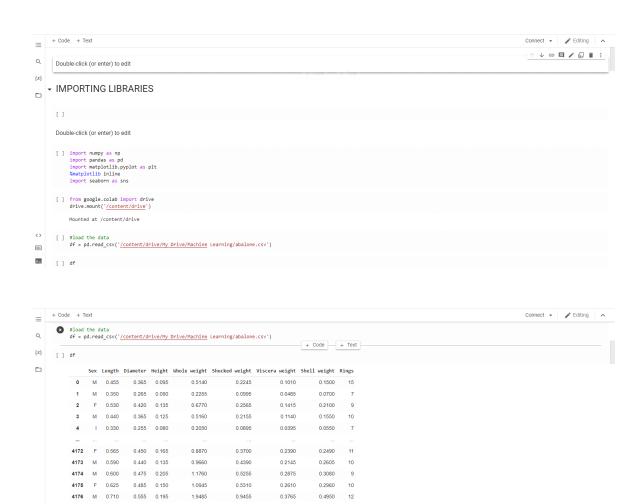
Assignment -4

Assignment Date	27 October 2022
Student Name	Zoohi Fathima K.M
Student Roll Number	812419104708
Maximum Marks	2 Marks



4177 rows × 9 columns

[] df.head()

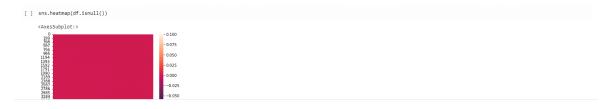
<>

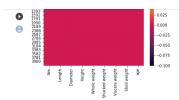
```
max 0.815000 0.650000 1.130000 2.825500 1.488000 0.760000 1.005000 29.000000

[] df['age'] = df['Rings'] + 1.5
df = df.drop('Rings', axis = 1)

[] from sklearn.preprocessing import StandardScaler
from sklearn.soodel_selection import train_test_split, cross_val_score
from sklearn.feature_selection import SelectKBest
from sklearn.metrics import rg_score, mean_squared_error
import warnings
warnings.filterwarnings("ignore", category-DeprecationNarning)
```

→ UNIVARIATE ANALYSIS

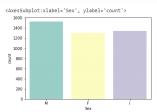




[] df.info()

```
7 Shell weight 4177 non-null float64
8 age 4177 non-null float64
```

[] sns.countplot(x = 'Sex', data = df, palette = 'Set3')

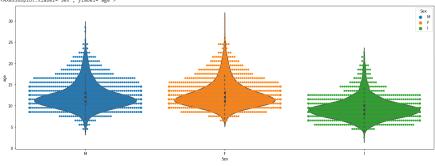


```
[ ] plt.figure(figsize = (20,7))
sns.swarmplot(x = 'Sex', y = 'age', data = df, hue = 'Sex')
sns.violinplot(x = 'Sex', y = 'age', data = df)
```

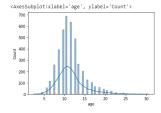
C:\Users\Harini S\anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 56.2% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot. warnings.warn(msg, UserWarning)
C:\Users\Harini S\anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 52.2% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.



C:\Users\Warini S\anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 56.2% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot. warnings.warn(mag, Susariarning)
C:\Users\Warini S\anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 52.2% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot. warnings.warnings, UserWarning: 53.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot. warnings.warnings, UserWarning: 58.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot. warnings.warnings, UserWarning: 58.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot. warnings.warnings, UserWarning: 58.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot. warnings.warnings, UserWarning: 58.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot. Warnings.warnings.UserWarning: 58.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot. Warnings.warnings.UserWarning: 58.5% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot. Warnings.warnings.UserWarnings.warnings.warnings.Warnings.warnings.Warnings.warnings.Warnings.warnings.Warnings.warnings.Warnings.warnings.Warnings.warnings.Warning



[] sns.histplot(df.age,kde=True)



▶ BIVARIATE ANALYSIS

[] 43 cells hidden

MULTI VARIATE ANALYSIS

[] 41 cell hidden

+ Code + Text [] 0 5 10 15 20 25 30	Connect ▼
age	
BIVARIATE ANALYSIS	
● 43 cells hidden	
MULTI VARIATE ANALYSIS	
[] 41 cell hidden	
• MISSING VALUES	
[] L3 cells hidden	
• OUTLIERS	
[] 4.18 cells hidden	
➤ SCALING THE INDEPENDENT VARIABLE	
4.2 cells hidden	
SPLITING THE DATA	
[] 42 cells hidden	
→ BUILDING MODEL	
[] 4 dells hidden	
TRAINING THE MODEL	
[] 43 cells hidden	
TESTING THE MODEL	
[] 45 cells hidden	