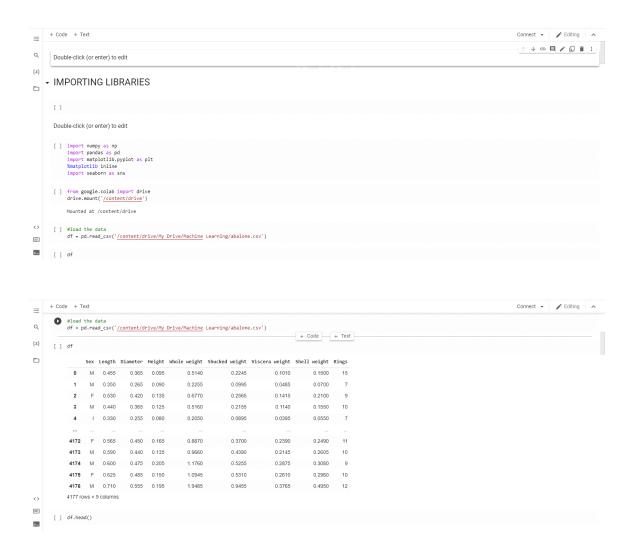
## Assignment -4

Assignment Date	27 October 2022
Student Name	Santhiya P
Student Roll Number	812419104705
Maximum Marks	2 Marks

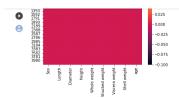


```
0.815000 0.650000
                                                                                          1.130000
                                                                                                                            2.825500
                                                                                                                                                                                                       0.760000
                                                                                                                                                                                                                                       1.005000 29.000000
                                                                                                                                                                    1.488000
             max
 0
[] df['age'] = df['Rings']+1.5
df = df.drop('Rings', axis = 1)
[] from sklearn.preprocessing import StandardScaler from sklearn.nodel_selection import train_test_split, cross_val_score from sklearn.feature_selection import SelectRest from sklearn.feature_selection import selectRest from sklearn.metrics import r2_score, mean_squared_error import warnings warnings.filterwarnings("ignore", category-DeprecationWarning)
```

## → UNIVARIATE ANALYSIS



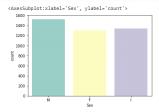




## [ ] df.info()



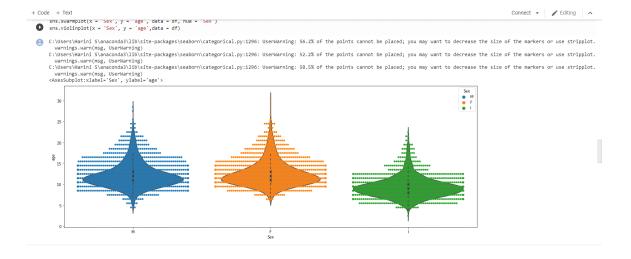
## $[ \ ] \ \ sns.countplot(x = `Sex', \ data = df, \ palette = `Set3')$

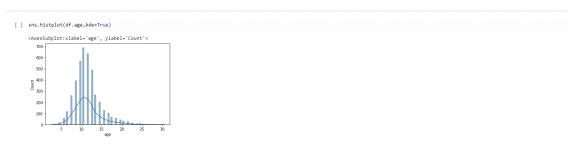


```
[ ] plt.figure(figsize = (20,7))
sns.swarmplot(x = 'Sex', y = 'age', data = df, hue = 'Sex')
sns.violinplot(x = 'Sex', y = 'age',data = df)
```

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

C:\Users\Harini S\anaconda3\\lib\site-packages\seaborn\categorical.py:1296: User\arning: 52.2% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.





▶ BIVARIATE ANALYSIS

[ ] 4.3 cells hidden

MULTI VARIATE ANALYSIS

[ ] 4.1 cell hidden



▶ CATEGORICAL COLUMNS

SCALING THE INDEPENDENT VARIABLE	
● 4.2 cells hidden	
SPLITING THE DATA	
[ ] L2 cells hidden	
BUILDING MODEL	
[ ] 4.4 cells hidden	
TRAINING THE MODEL	
[ ] 43 cells hidden	
TESTING THE MODEL	
[ ] L5 cells hidden	