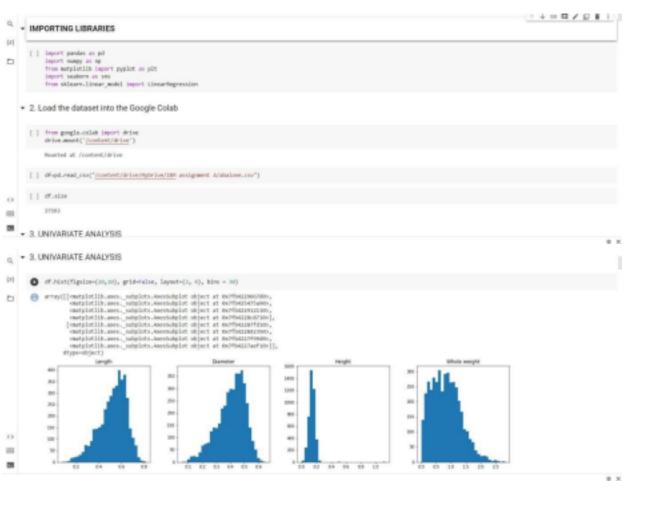
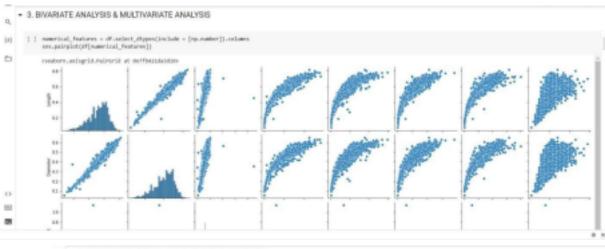
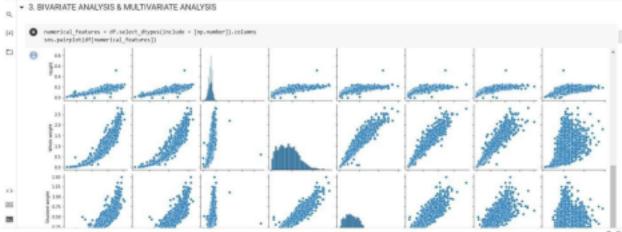
## **Assignment-4**

Date	03.11.2022
Team Id	PNT2022TMID24195
Project Name	Estimated The Crop Yelid using Data Analytics
Team Leader	Divi Nandhu
Team Member	Bharathkumar S Induja H Chaithanya Babu K







## 4. Descriptive statistics

(Jedfroeshith [ ]

	Length	Olemeter	respe	Mole weight	Shucked weight	Viscera weight	thell weight	Rings
pound	47.77,000000	4177,000000	4/177,000000	4117,0000000	4177,0000000	4177,000000	4117,000000	4177,0000000
nean	0.523902	0.407881	0.139516	0.028742	0.358367	0.100594	0.238001	9.903684
100	0.129000	0.000240	0.041827	0.490389	0.221963	0.108614	0.138293	3.224169
min	0.075000	0.055000	0.000000	0.002000	0.001000	0.000000	0.001500	1.000000
25%	0.450000	0.350000	0.115000	0.441500	0.156000	0.090500	0.130000	8.000000
son.	0.545000	0.425000	0.140000	0.7995000	0.306000	0.171000	0.294000	9.000000
75%	0.615000	0.450000	0.165000	1.153000	0.502000	0.253000	0.529000	11.0000000
max	0.815000	0.650000	1.130000	2.829500	1.488000	0.768008	1.005000	29.000000

## o, v 5. Check for Missing Values

O of deadl()-ven()

D

tength of Diameter of Neight of Shucked seright of Viscora seright of Shull series of Shull series

## . 6. OUTLIER HANDLING

( ) df = pd.get\_dummles(dF)
dummy\_data = df.copy()

O [] var = 'victora seight'
plt.scatter(x = df[var], y = df['Rings'],)
O

8

```
Q,
 \{x\}
  b
             0
                   20.0
                    273
                    18.4 -
                    93-
                    200
                     25
                     3.8
 65
           [ ] ver = 'Longth'
plit-scatter(x = df[ner], y = df['Nings'])
plit-grid(Inse)
 003
 8

    ver = "cough"
plt.scatter(x = df[ver], y = df["kings"])
plt.grid[true)

00
                 df.drop(df)(df)'(logth') +0.1) & 

(df)'(mings') < 1)].index, implace - True) 

df.drop(df)(df)'(longth')co.0) & ( 

df)'(mings') > 10)[.index, implace - True) 

df.drop(df)(df)'(longth')s-e.n) & ( 

df('mings') < 15)].index, implace - True)
\Box
                  115
                  18.0
                  115
                  20-0
                   30
                               10
8

    7. Categorical columns

  Q,
            [ ] numerical_features = df.select_dtypes(include = [np.number]).calumns
categorical_features = df.select_dtypes(include = [np.object]).columns
  (4)
  /wsv/incal/lib/pytherd-T/dist-packages/Tpytermel_lisencher.py-1: Deprecationsarwing: "np.object" is a deprecated alias for the builtin "object". To silence this warning, use "object" by Deprecated in Homby 1.30; for more details and goldence: https://mmpy.org/device.inslasse/1.30.8.mstm.html#deprecations
                   .

    numerical_features

             index[['uesgth', 'diameter', 'meight', 'shale seight', 'shacked seight', 
"Visions seight', 'Shell seight', 'Bings', 'Sex,F', 'Sex,F'], 
dtypes'sbject']
            [ ] categorical_features
                   Index([], dtype='object')
  a. + ENCODING
 (x)

    from skieers.preprocessing import Labelincoder
le=iabelincoder()
print(dF.demgth.nelsq_counts())

  b
            ⊕ 8,575 95
8,580 92
8,590 92
8,625 91
8,680 85
                   8,130
8,130
8,755
8,150
8,760
                    Name: Length, Length: 126, dType: Intida

    8. Split the dependent and independent variables

            [ ] x-df.ilec[:,:5]
 001
 20
                             Length Dismeter meight iduals weight thursed weight
```

