# **Assignment -2**Python Programming

Assignment Date	25 September 2022
Student Name	Jaswanth Madela
Student Roll Number	720819106042
Maximum Marks	2 Marks

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

## 2.Loading the data Set

df=pd.read\_csv("Churn\_Modelling.csv")
df

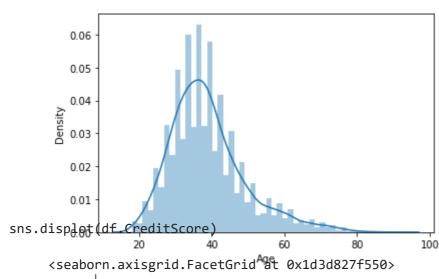


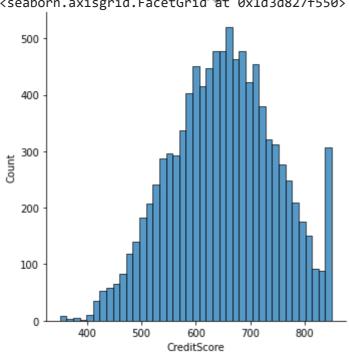
#### RowNumber CustomerId Surname Cre ditScore Geography Gender Age Tenure

0	1	15634602	Hargrave	619 France Female	42 2
1	2	15647311	Hill 608	Spain Female 41 1	
2	3	15619304	Onio 502	France Female 4.	2 8
3	4	15701354	Boni 699	France Female 3	9 1
4	5	15737888	Mitchell	850 Spain Female 4	3 2
•••	•••	***	•••		
9995	9996	15606229	Obijiaku	771 France Male 3	9 5
9996	9997	15569892 Joh	nnstone 516	France Male 35 1	0
9997	9998	15584532	Liu 709	France Female 3	6 7

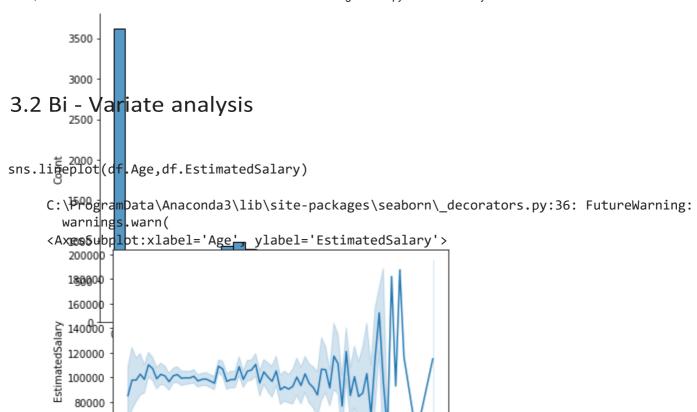
### 3. Visulaizatoin 3.1

## **Univariate Analysis**

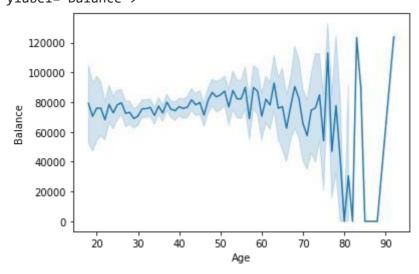




C:\ProgramData\Anaconda3\lib\site-packages\seaborn\\_decorators.py:36: FutureWarning:



warnings.warn( <AxesSubplot:xlabel='Age',
ylabel='Balance'>



50

Age

60

70

80

90

sns.lineplot(df.Age,df.Exited)

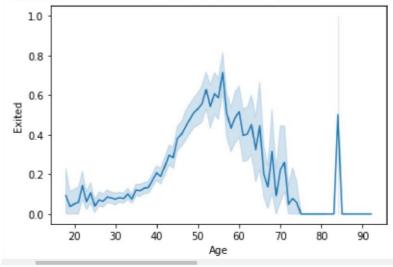
60000 40000

20

30

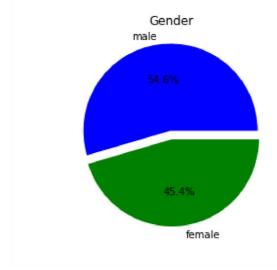
C:\ProgramData\Anaconda3\lib\site-packages\seaborn\\_decorators.py:36: FutureWarning:
 warnings.warn(

<AxesSubplot:xlabel='Age', ylabel='Exited'>

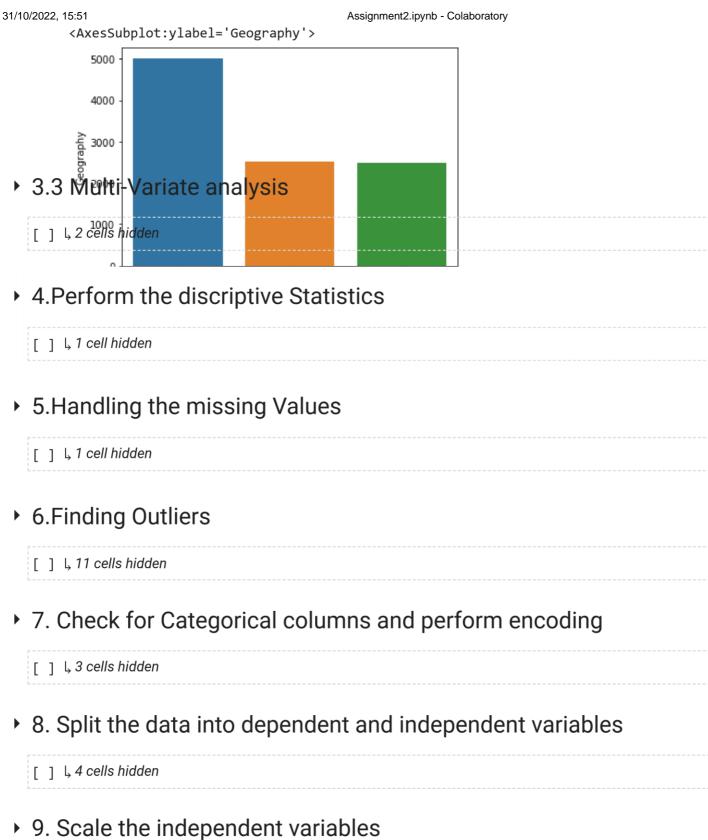


plt.pie(df.Gender.value\_counts(),[0.1,0],labels=["male","female"],autopct="%1.1f%%",colors
plt.title("Gender")





sns.barplot(df.Geography.value\_counts().index,df.Geography.value\_counts())
C:\ProgramData\Anaconda3\lib\site-packages\seaborn\\_decorators.py:36: FutureWarning:
 warnings.warn(



https://colab.research.google.com/drive/1WxICA1J7PYNt5W\_nXbSs229QQEHaNJ-t#printMode=true

10. Split the data into training and testing

[ ] L, 2 cells hidden

[ ] L, 2 cells hidden

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