#### **ASSIGNMENT 2**

DATE	26 SEPTEMEBR 2022.
TEAM ID	PNT2022TMID38676.
PROJECT NAME	<b>Exploratory Analysis of Rain Fall Data In</b>
	India For Agriculture.
NAME	Vikram P (T L)

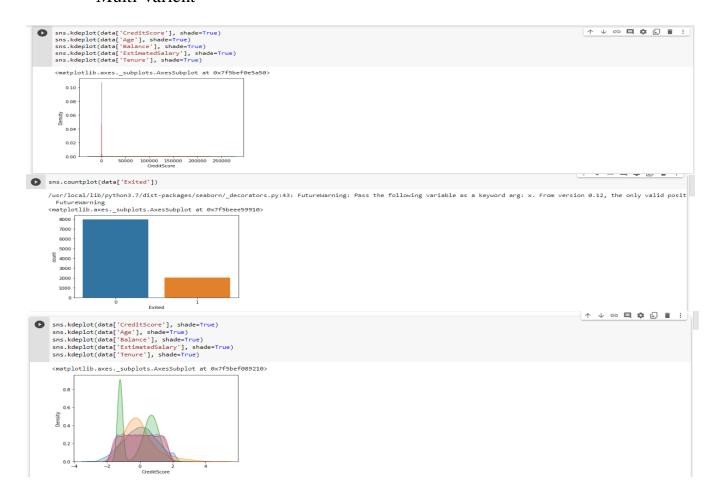
#### 1.Download the dataset

#### 2.Load the dataset

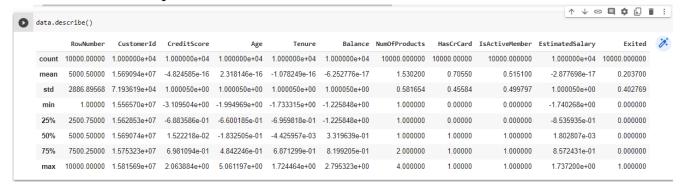
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plot
import seaborn as sns
data=pd.read_csv('Churn_Modelling.csv')
```

# 3. perform below visualization

- Univarient
- Bi-varient
- Multi-varient



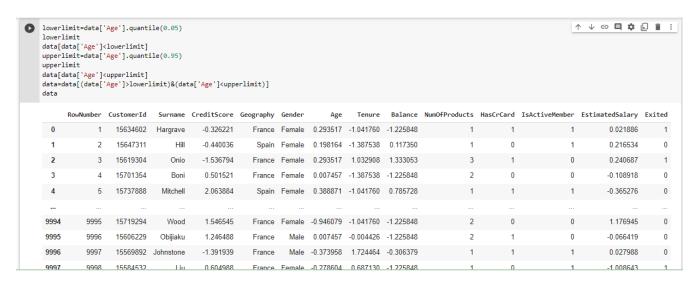
# 4.Perform the descriptive statistics on the datase



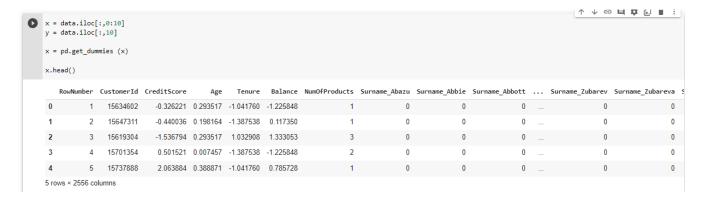
#### 5. Handle the missing values



## 6. Find the outliers and replace the outliers



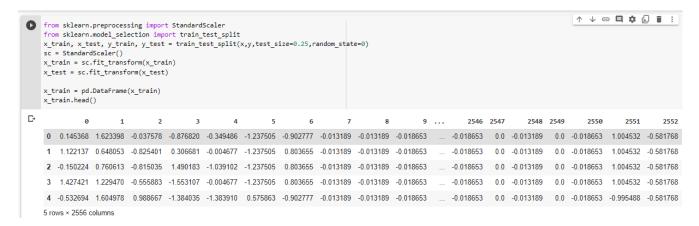
# 7. Check the categorical columns and perform encoding



# 8. Split the dataset into ipdendent and dependent variables.

```
x = data.iloc[:,0:10]
y = data.iloc[:,10]
print(x.shape)
print(y.shape)
(7667, 10)
(7667,)
```

#### 9. Scale the independent variable



# 10. Split the data into training and testing.

```
from sklearn.model_selection import train_test_split
    x_train, x_test, y_train, y_test = train_test_split(x,y,test_size=0.25,random_state=0)
    print('x_train.shape: ',x_train.shape)
    print('y_train.shape: ',y_train.shape)
    print('y_test.shape: ',x_test.shape)

    x_train.shape: (5750, 2556)
    y_train.shape: (5750, 2556)
    y_train.shape: (1917, 2556)
    y_test.shape: (1917,)
```