```
In [1]:
        import pandas as pd
        import numpy as np
        import matplotlib as plt
        %matplotlib inline
        import statistics as st
        df = pd.read csv("C:\\Users\\Suresh Jamadagni\\downloads\\train.csv")
In [2]:
        print(df)
             Loan_ID Gender Married Dependents
                                                   Education Self_Employed \
        0
            LP001002
                       Male
                                No 0
                                                   Graduate
        1
            LP001003
                        Male
                                 Yes
                                            1
                                                    Graduate
                                                                       No
                                            0
                                                    Graduate
        2
            LP001005
                       Male
                                Yes
                                                                      Yes
        3
            LP001006
                        Male
                                Yes
                                            0 Not Graduate
                                                                      No
        4
            LP001008 Male
                                No
                                            0
                                                   Graduate
                                                                       No
                 . . .
                        . . .
                                 . . .
                                           . . .
        609 LP002978 Female
                                            0
                                 No
                                                    Graduate
                                                                       No
        610 LP002979
                      Male
                                Yes
                                           3+
                                                    Graduate
                                           1
        611 LP002983
                        Male
                                Yes
                                                    Graduate
                                                                       No
        612 LP002984
                        Male
                                            2
                                Yes
                                                    Graduate
                                                                       No
        613 LP002990 Female
                                            0
                                No
                                                    Graduate
                                                                      Yes
            ApplicantIncome CoapplicantIncome LoanAmount Loan_Amount_Term
                                          0.0
                                                                     360.0
        0
                       5849
                                                    NaN
        1
                       4583
                                       1508.0
                                                    128.0
                                                                     360.0
        2
                       3000
                                          0.0
                                                    66.0
                                                                     360.0
        3
                       2583
                                       2358.0
                                                   120.0
                                                                     360.0
        4
                       6000
                                         0.0
                                                    141.0
                                                                     360.0
                       . . .
                                          . . .
                                                     . . .
                                                                      . . .
                       2900
                                          0.0
                                                    71.0
                                                                     360.0
        609
                                                    40.0
        610
                       4106
                                          0.0
                                                                     180.0
        611
                       8072
                                        240.0
                                                    253.0
                                                                     360.0
        612
                       7583
                                          0.0
                                                    187.0
                                                                     360.0
        613
                       4583
                                          0.0
                                                    133.0
                                                                     360.0
            Credit_History Property_Area Loan_Status
                                  Urban
        0
                       1.0
        1
                       1.0
                                  Rural
        2
                       1.0
                                  Urban
                                                  Υ
        3
                                  Urban
                       1.0
        4
                       1.0
                                  Urban
                                                  Υ
                       . . .
                       1.0
                                  Rural
                                                  Υ
        609
        610
                       1.0
                                  Rural
        611
                       1.0
                                  Urban
                                                  Υ
        612
                       1.0
                                  Urban
                                                  Υ
        613
                       0.0
                               Semiurban
        [614 rows x 13 columns]
In [3]:
        # Summary Measures of a DataFrame Column using Statistics
        print('Mean ', st.mean(df['ApplicantIncome'])) #prints mean of only ApplicantInco
        print('Median ', st.median(df['ApplicantIncome'])) #prints median of only Applica
        print('Mode ', st.mode(df['ApplicantIncome'])) #prints mode of only ApplicantIncome'
        print('Standard Deviation ', st.pstdev(df['ApplicantIncome'])) #prints population
        print('Standard Deviation ', st.stdev(df['ApplicantIncome'])) #prints sample stan
```

Mean 5403.459283387622 Median 3812.5 Standard Deviation 6104.064856533892 Standard Deviation 6109.041673387178

In [4]: df.describe() #Provides summary measures for variables of type : int or float

Out[4]:		ApplicantIncome	CoapplicantIncome	LoanAmount	Loan_Amount_Term	Credit_History
	count	614.000000	614.000000	592.000000	600.00000	564.000000
	mean	5403.459283	1621.245798	146.412162	342.00000	0.842199
	std	6109.041673	2926.248369	85.587325	65.12041	0.364878
	min	150.000000	0.000000	9.000000	12.00000	0.000000
	25%	2877.500000	0.000000	100.000000	360.00000	1.000000
	50%	3812.500000	1188.500000	128.000000	360.00000	1.000000
	75%	5795.000000	2297.250000	168.000000	360.00000	1.000000
	max	81000.000000	41667.000000	700.000000	480.00000	1.000000

In [5]: print(df['Property_Area'].value_counts()) #for categorial data(works like group_

Semiurban 233 Urban 202 Rural 179

Name: Property_Area, dtype: int64

In []: