	<pre>import pandas as pd import numpy as np  df = pd.read_csv("Dataset.csv")</pre>	
[3]:	Loan_ID         Gender         Married         Dependents         Education         Self_Employed         ApplicantIncome         CoapplicantIncome         LoanAmount         LoanAmount_Term         Credit_History         Property_Area         Loan_Status           0         LP001002         Male         No         0         Graduate         No         5849         0.0         NaN         360.0         1.0         Urban         Y           1         LP001003         Male         Yes         1         Graduate         No         4583         1508.0         128.0         360.0         1.0         Rural         N           2         LP001005         Male         Yes         0         Graduate         Yes         3000         0.0         66.0         360.0         1.0         Urban         Y           3         LP001006         Male         Yes         0         Not Graduate         No         2583         2358.0         120.0         360.0         1.0         Urban         Y           4         LP001008         Male         No         Creditate         No         6000         0.0         1410         360.0         1.0         Urban         Y	
[4]:	4 LP001008 Male No 0 Graduate No 6000 0.0 141.0 360.0 1.0 Urban Y  df.shape  (614, 13)	
[5]:	df.info() <class 'pandas.core.frame.dataframe'=""> RangeIndex: 614 entries, 0 to 613 Data columns (total 13 columns):  # Column Non-Null Count Dtype </class>	
	ApplicantIncome         CoapplicantIncome         LoanAmount _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         12.00000         0.000000           25%         2877.500000         0.000000         100.00000         1.000000           50%         3812.500000         1188.500000         128.00000         360.00000         1.000000           75%         5795.00000         2297.250000         168.000000         360.00000         1.000000           max         81000.000000         41667.000000         700.000000         480.00000         1.000000	
<u> </u> [7]:	<pre>df['Gender'].value_counts() Male     489 Formalo     112</pre>	
[8]:	Female 112 Name: Gender, dtype: int64  df['Married'].value_counts()	
[9]:	Yes 398 No 213 Name: Married, dtype: int64  df['Dependents'].value_counts() 0 345	
	0 345 1 102 2 101 3+ 51 Name: Dependents, dtype: int64	
10]: [	df['Education'].value_counts()  Graduate 480 Not Graduate 134	
.1]:[	Name: Education, dtype: int64  df['Self_Employed'].value_counts()	
	No 500 Yes 82 Name: Self_Employed, dtype: int64  df.columns	
	<pre>Index(['Loan_ID', 'Gender', 'Married', 'Dependents', 'Education',</pre>	
3].	<pre>dtype='object')  df.isnull().sum()  Loan_ID      0 Gender      13</pre>	
.4]:	Loan_Amount_Term 14 Credit_History 50 Property_Area 0 Loan_Status 0 dtype: int64  df1=df1.copy()  df1= df1.drop(columns=['Loan_ID'])	
	df1.shape (614, 12)	
	<pre>df1['LoanAmount']=df1['LoanAmount'].fillna(df1['LoanAmount'].mean())  df1['Loan_Amount_Term']=df1['Loan_Amount_Term'].fillna(df1['Loan_Amount_Term'].mean())</pre>	
	<pre>df1['Credit_History']=df1['Credit_History'].fillna(df1['Credit_History'].mean())  df1['Gender']=df1['Gender'].fillna(df1['Gender'].mode()[0])</pre>	
21]:	df1['Married']=df1['Married'].fillna(df1['Married'].mode()[0])	
3]:	<pre>df1['Dependents']=df1['Dependents'].fillna(df1['Dependents'].mode()[0])  df1['Self_Employed']=df1['Self_Employed'].fillna(df1['Self_Employed'].mode()[0])</pre>	
24]:	df1.isnull().sum()           Gender         0           Married         0           Dependents         0           Education         0           Self_Employed         0           ApplicantIncome         0           CoapplicantIncome         0           Loan_Amount         0           Credit_History         0           Property_Area         0           Loan_Status         0           dtype: int64         0	
5]:	Gender object Married object Dependents object Education object Self_Employed object ApplicantIncome int64 CoapplicantIncome float64 Loan Amount float64 Loan Amount Term float64 Credit_History float64 Property_Area object Loan_Status object dtype: object	
	<pre>from sklearn import preprocessing label_encoder = preprocessing.LabelEncoder()</pre>	
	<pre>df1['Gender']= label_encoder.fit_transform(df1['Gender'])</pre>	
27]: [ 28]: [	<pre>df1['Married']= label_encoder.fit_transform(df1['Married'])</pre>	
27]: [ 28]: [ 29]: [	<pre>df1['Married']= label_encoder.fit_transform(df1['Married'])  df1['Education']= label_encoder.fit_transform(df1['Education'])  df1['Self_Employed']= label_encoder.fit_transform(df1['Self_Employed'])</pre>	
27]: [ 28]: [ 29]: [ 30]: [	<pre>df1['Education']= label_encoder.fit_transform(df1['Education'])</pre>	
27]: [ 28]: [ 29]: [ 30]: [ 33]: [ 33]: [	<pre>df1['Education']= label_encoder.fit_transform(df1['Education'])  df1['Self_Employed']= label_encoder.fit_transform(df1['Self_Employed'])  df1['Property_Area']= label_encoder.fit_transform(df1['Property_Area'])  df1['Loan_Status']= label_encoder.fit_transform(df1['Loan_Status'])  df1.dtypes  Gender</pre>	
27]: [ 28]: [ 29]: [ 30]: [ 33]: [ 33]: [ 34]: [	df1['Education']= label_encoder.fit_transform(df1['Education'])  df1['Property_Area']= label_encoder.fit_transform(df1['Self_Employed'])  df1['Loan_Status']= label_encoder.fit_transform(df1['Property_Area'])  df1['Loan_Status']= label_encoder.fit_transform(df1['Loan_Status'])  df1.dtypes  Gender	
27]: [ 28]: [ 29]: [ 30]: [ 33]: [ 33]: [ 34]: [	df1['Education']= label_encoder.fit_transform(df1['Education'])  df1['Self_Employed']= label_encoder.fit_transform(df1['Property_Area'])  df1['Interval	
27]: [ 28]: [ 29]: [ 30]: [ 33]: [ 33]: [ 34]: [	df1['Education']= label_encoder.fit_transform(df1['Education'])  df1['Self_Employed']= label_encoder.fit_transform(df1['Self_Employed'])  df1['Property_Area']= label_encoder.fit_transform(df1['Yeoperty_Area'])  df1['Loan_Status']= label_encoder.fit_transform(df1['Loan_Status'])  df1.dtypes  Gender	
27]: [ 28]: [ 29]: [ 30]: [ 33]: [ 33]: [ 34]: [	df1['Education']= label_encoder.fit_transform(df1['Education'])  df1['Self_Employed']= label_encoder.fit_transform(df1['Self_Employed'])  df1['Property_Area']= label_encoder.fit_transform(df1['Property_Area'])  df1['Loan_Status']= label_encoder.fit_transform(df1['Property_Area'])  df1.dtypes  Gender	