

```
In [1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn import svm
```

```
In [2]: df = pd.read_csv('loan.csv')
```

```
In [3]: df.head()
```

```
Out[3]:
```

	Loan_ID	Gender	Married	Dependents	Education	Self_Employed	ApplicantIncome	CoapplicantIncome	LoanAmount	Loan_Amount_Terr
0	LP001002	Male	No	0	Graduate	No	5849	0.0	NaN	360.
1	LP001003	Male	Yes	1	Graduate	No	4583	1508.0	128.0	360.
2	LP001005	Male	Yes	0	Graduate	Yes	3000	0.0	66.0	360.
3	LP001006	Male	Yes	0	Not Graduate	No	2583	2358.0	120.0	360.
4	LP001008	Male	No	0	Graduate	No	6000	0.0	141.0	360.

```
In [4]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 614 entries, 0 to 613
Data columns (total 13 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Loan_ID               614 non-null   object
1   Gender                601 non-null   object
2   Married               611 non-null   object
3   Dependents            599 non-null   object
4   Education             614 non-null   object
5   Self_Employed         582 non-null   object
6   ApplicantIncome       614 non-null   int64
7   CoapplicantIncome     614 non-null   float64
8   LoanAmount            592 non-null   float64
9   Loan_Amount_Term      600 non-null   float64
10  Credit_History         564 non-null   float64
11  Property_Area          614 non-null   object
12  Loan_Status            614 non-null   object
dtypes: float64(4), int64(1), object(8)
memory usage: 62.5+ KB
```

```
In [5]: df.isnull().sum()
```

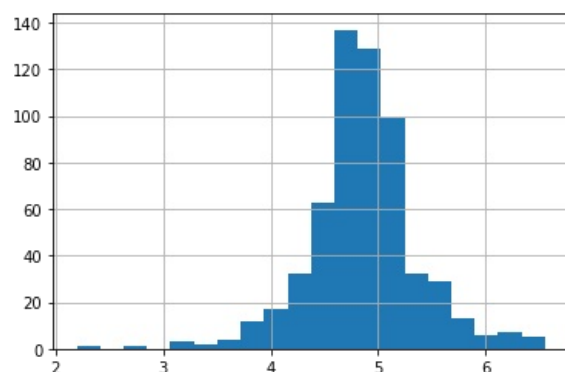
```
Out[5]:
```

Loan_ID	0
Gender	13
Married	3
Dependents	15
Education	0
Self_Employed	32
ApplicantIncome	0
CoapplicantIncome	0
LoanAmount	22
Loan_Amount_Term	14
Credit_History	50
Property_Area	0
Loan_Status	0

dtype: int64

```
In [6]: df['loanAmount_log'] = np.log(df['LoanAmount'])
df['loanAmount_log'].hist(bins=20)
```

```
Out[6]: <AxesSubplot:>
```

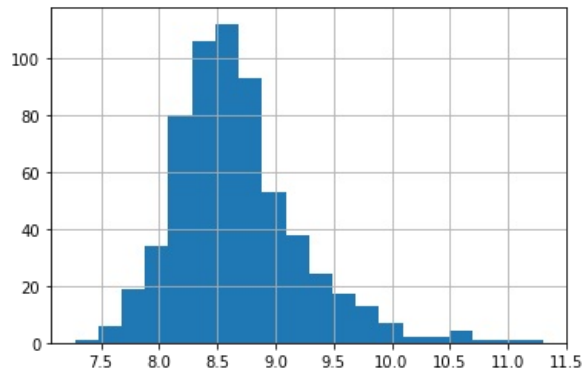


```
In [7]: df.isnull().sum()
```

```
Out[7]: Loan_ID      0
Gender      13
Married     3
Dependents  15
Education   0
Self_Employed 32
ApplicantIncome 0
CoapplicantIncome 0
LoanAmount  22
Loan_Amount_Term 14
Credit_History 50
Property_Area 0
Loan_Status 0
loanAmount_log 22
dtype: int64
```

```
In [8]: df['TotalIncome']= df['ApplicantIncome']+ df['CoapplicantIncome']
df['TotalIncome_log']=np.log(df['TotalIncome'])
df['TotalIncome_log'].hist(bins=20)
```

```
Out[8]: <AxesSubplot:>
```



```
In [9]: df['Gender'].fillna(df['Gender'].mode()[0],inplace = True)
df['Married'].fillna(df['Married'].mode()[0],inplace = True)
df['Self_Employed'].fillna(df['Self_Employed'].mode()[0],inplace = True)
df['Dependents'].fillna(df['Dependents'].mode()[0],inplace = True)

df.LoanAmount = df.LoanAmount.fillna(df.LoanAmount.mean())
df.loanAmount_log = df.loanAmount_log.fillna(df.loanAmount_log.mean())

df['Loan_Amount_Term'].fillna(df['Loan_Amount_Term'].mode()[0], inplace = True)
df['Credit_History'].fillna(df['Credit_History'].mode()[0], inplace = True)

df.isnull().sum()
```

```
Out[9]: Loan_ID      0
Gender      0
Married     0
Dependents  0
Education   0
Self_Employed 0
ApplicantIncome 0
CoapplicantIncome 0
LoanAmount  0
Loan_Amount_Term 0
Credit_History 0
Property_Area 0
Loan_Status 0
loanAmount_log 0
TotalIncome  0
TotalIncome_log 0
dtype: int64
```

```
In [10]: x= df.iloc[:,np.r_[1:5, 9:11, 13:15]].values
y= df.iloc[:,12].values

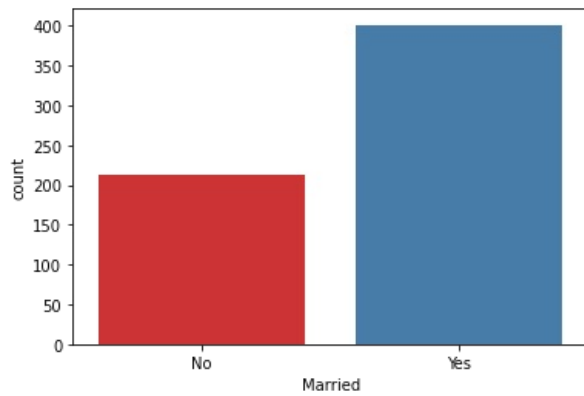
x
```

```
Out[10]: array([[ 'Male', 'No', '0', ..., 1.0, 4.857444178729353, 5849.0],
 [ 'Male', 'Yes', '1', ..., 1.0, 4.852030263919617, 6091.0],
 [ 'Male', 'Yes', '0', ..., 1.0, 4.189654742026425, 3000.0],
 ...,
 [ 'Male', 'Yes', '1', ..., 1.0, 5.53338948872752, 8312.0],
 [ 'Male', 'Yes', '2', ..., 1.0, 5.231108616854587, 7583.0],
 [ 'Female', 'No', '0', ..., 0.0, 4.890349128221754, 4583.0]],
      dtype=object)
```

```
In [11]: y
```



Out[14]: <AxesSubplot:xlabel='Married', ylabel='count'>



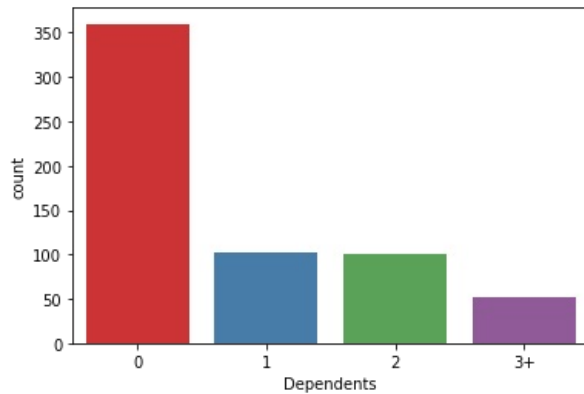
```
In [15]: print("number of people who take loan as group by dependents:")
print(df['Dependents'].value_counts())
sns.countplot(x='Dependents', data=df, palette = 'Set1')
```

number of people who take loan as group by dependents:

```
0    360
1    102
2    101
3+    51
```

Name: Dependents, dtype: int64

Out[15]: <AxesSubplot:xlabel='Dependents', ylabel='count'>



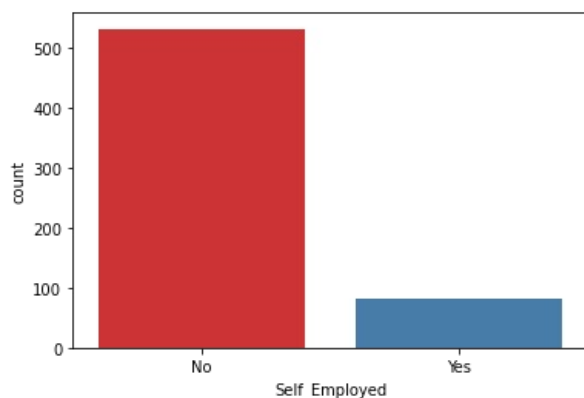
```
In [16]: print("number of people who take loan as group by self employed:")
print(df['Self_Employed'].value_counts())
sns.countplot(x='Self_Employed', data=df, palette = 'Set1')
```

number of people who take loan as group by self employed:

```
No    532
Yes    82
```

Name: Self\_Employed, dtype: int64

Out[16]: <AxesSubplot:xlabel='Self\_Employed', ylabel='count'>



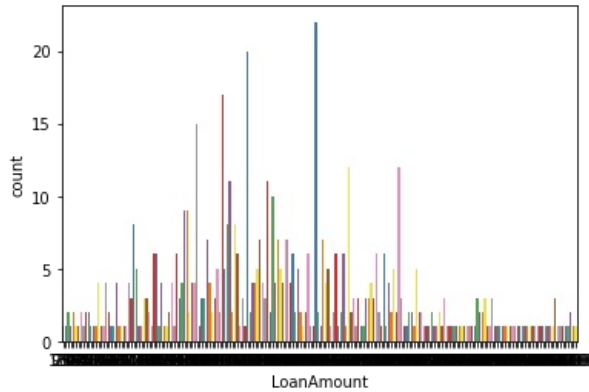
```
In [17]: print("number of people who take loan as group by Loanamount:")
print(df['LoanAmount'].value_counts())
sns.countplot(x='LoanAmount', data=df, palette = 'Set1')
```

number of people who take loan as group by Loanamount:

```
146.412162    22
120.000000    20
110.000000    17
100.000000    15
160.000000    12
..
240.000000     1
214.000000     1
59.000000      1
166.000000     1
253.000000     1
```

Name: LoanAmount, Length: 204, dtype: int64

Out[17]: <AxesSubplot:xlabel='LoanAmount', ylabel='count'>



```
In [18]: print("number of people who take loan as group by self Credit history:")
print(df['Credit_History'].value_counts())
sns.countplot(x='Credit_History', data=df, palette = 'Set1')
```

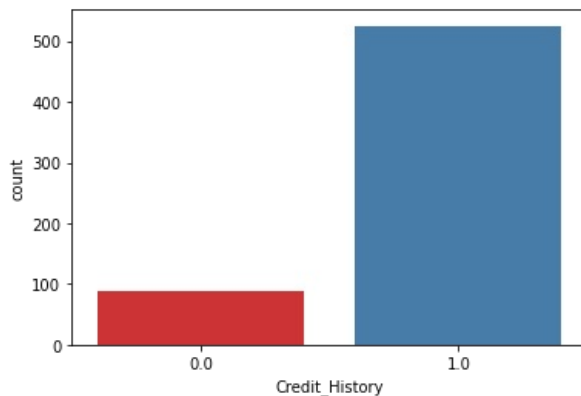
number of people who take loan as group by self Credit history:

```
1.0    525
```

```
0.0     89
```

Name: Credit\_History, dtype: int64

Out[18]: <AxesSubplot:xlabel='Credit\_History', ylabel='count'>



```
In [19]: from sklearn.model_selection import train_test_split
```

```
In [20]: x_train, x_test, y_train, y_test = train_test_split(x, y, test_size = 0.2, random_state= 0)
```

```
from sklearn.preprocessing import LabelEncoder
Labelencoder_x = LabelEncoder()
```

```
In [21]: for i in range(0, 5):
x_train[:,i]= Labelencoder_x.fit_transform(x_train[:,i])
x_train[:,7]= Labelencoder_x.fit_transform(x_train[:,7])
```

x\_train

```
Out[21]: array([[1, 1, 0, ..., 1.0, 4.875197323201151, 267],
[1, 0, 1, ..., 1.0, 5.278114659230517, 407],
[1, 1, 0, ..., 0.0, 5.003946305945459, 249],
...,
[1, 1, 3, ..., 1.0, 5.298317366548036, 363],
[1, 1, 0, ..., 1.0, 5.075173815233827, 273],
[0, 1, 0, ..., 1.0, 5.204006687076795, 301]], dtype=object)
```

```
In [22]: Labelencoder_y = LabelEncoder()
y_train = Labelencoder_y.fit_transform(y_train)

y_train
```

```
Out[22]: array([[1, 0, 0, 1, 1, 0, 1, 1, 1, 0, 0, 1, 1, 1, 1, 1, 1, 0, 1, 1,
0, 1, 1, 0, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 0, 1, 0, 1, 0, 1, 1, 1,
1, 0, 0, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1, 0, 1, 1, 0,
1, 1, 1, 1, 1, 0, 0, 1, 1, 0, 1, 0, 0, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1,
1, 1, 0, 1, 0, 1, 0, 1, 1, 1, 1, 1, 0, 0, 1, 1, 1, 0, 1, 1, 0, 0, 0,
1, 1, 1, 0, 1, 0, 0, 1, 0, 0, 0, 1, 1, 1, 1, 1, 0, 0, 0, 0, 1, 1,
0, 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1,
1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 1, 1, 1, 0,
0, 1, 0, 1, 0, 0, 0, 1, 0, 1, 1, 1, 1, 1, 0, 0, 1, 0, 1, 1, 1, 1,
0, 0, 1, 1, 1, 1, 1, 0, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 0, 0, 1, 1,
0, 1, 1, 1, 0, 1, 1, 1, 1, 0, 1, 0, 1, 0, 1, 1, 0, 0, 0, 1, 0, 1, 1,
1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 0, 1, 0, 1, 0, 1, 1, 1, 1, 1, 1,
1, 1, 0, 0, 1, 0, 1, 1, 1, 0, 1, 1, 0, 1, 0, 1, 0, 1, 1, 1, 1, 1,
1, 1, 1, 1, 0, 1, 1, 0, 1, 1, 1, 1, 0, 0, 1, 1, 1, 0, 1, 0, 1, 1,
1, 1, 1, 0, 1, 0, 1, 0, 0, 1, 1, 0, 0, 1, 1, 0, 0, 0, 1, 1, 1, 1,
1, 1, 1, 0, 1, 1, 1, 1, 0, 1, 1, 0, 1, 0, 0, 0, 1, 1, 1, 1, 1, 1,
1, 0, 1, 0, 1, 1, 1, 0, 1, 1, 1, 0, 0, 1, 1, 1, 0, 1, 1, 1, 1,
1, 1, 0, 0, 1, 0, 1, 1, 1, 1, 1, 1, 0, 0, 1, 0, 0, 0, 0, 0, 1,
1, 1, 1, 1, 1, 0, 1, 0, 1, 0, 0, 0, 1, 1, 1, 0, 1, 1, 0, 0, 0, 0, 1,
1, 1, 1, 0, 1, 0, 1])
```

```
In [23]: for i in range(0,5):
x_test[:,i]= Labelencoder_x.fit_transform(x_test[:,i])
x_test[:,7] = Labelencoder_x.fit_transform(x_test[:,7])

x_test
```

```
Out[23]: array([[1, 0, 0, 0, 5, 1.0, 4.430816798843313, 85],
[0, 0, 0, 0, 5, 1.0, 4.718498871295094, 28],
[1, 1, 0, 0, 5, 1.0, 5.780743515792329, 104],
[1, 1, 0, 0, 5, 1.0, 4.700480365792417, 80],
[1, 1, 2, 0, 5, 1.0, 4.574710978503383, 22],
[1, 1, 0, 1, 3, 0.0, 5.10594547390058, 70],
[1, 1, 3, 0, 3, 1.0, 5.056245805348308, 77],
[1, 0, 0, 0, 5, 1.0, 6.003887067106539, 114],
[1, 0, 0, 0, 5, 0.0, 4.820281565605037, 53],
[1, 1, 0, 0, 5, 1.0, 4.852030263919617, 55],
[0, 0, 0, 0, 5, 1.0, 4.430816798843313, 4],
[1, 1, 1, 0, 5, 1.0, 4.553876891600541, 2],
[0, 0, 0, 0, 5, 1.0, 5.634789603169249, 96],
[1, 1, 2, 0, 5, 1.0, 5.4638318050256105, 97],
[1, 1, 0, 0, 5, 1.0, 4.564348191467836, 117],
[1, 1, 1, 0, 5, 1.0, 4.204692619390966, 22],
[1, 0, 1, 1, 5, 1.0, 5.247024072160486, 32],
[1, 0, 0, 1, 5, 1.0, 4.882801922586371, 25],
[0, 0, 0, 0, 5, 1.0, 4.532599493153256, 1],
[1, 1, 0, 1, 5, 0.0, 5.198497031265826, 44],
[0, 1, 0, 0, 5, 0.0, 4.787491742782046, 71],
[1, 1, 0, 0, 5, 1.0, 4.962844630259907, 43],
[1, 1, 2, 0, 5, 1.0, 4.68213122712422, 91],
[1, 1, 2, 0, 5, 1.0, 5.10594547390058, 111],
[1, 1, 0, 0, 5, 1.0, 4.060443010546419, 35],
[1, 1, 1, 0, 5, 1.0, 5.521460917862246, 94],
[1, 0, 0, 0, 5, 1.0, 5.231108616854587, 98],
[1, 1, 0, 0, 5, 1.0, 5.231108616854587, 110],
[1, 1, 3, 0, 5, 0.0, 4.852030263919617, 41],
[0, 0, 0, 0, 5, 0.0, 4.634728988229636, 50],
[1, 1, 0, 0, 5, 1.0, 5.429345628954441, 99],
[1, 0, 0, 1, 5, 1.0, 3.871201010907891, 46],
[1, 1, 1, 1, 5, 1.0, 4.499809670330265, 52],
[1, 1, 0, 0, 5, 1.0, 5.19295685089021, 102],
[1, 1, 0, 0, 5, 1.0, 4.857444178729353, 95],
[0, 1, 0, 1, 5, 0.0, 5.181783550292085, 57],
[1, 1, 0, 0, 5, 1.0, 5.147494476813453, 65],
[1, 0, 0, 1, 5, 1.0, 4.836281906951478, 39],
[1, 1, 0, 0, 5, 1.0, 4.852030263919617, 75],
[1, 1, 2, 1, 5, 1.0, 4.68213122712422, 24],
[0, 0, 0, 0, 5, 1.0, 4.382026634673881, 9],
[1, 1, 3, 0, 5, 0.0, 4.812184355372417, 68],
[1, 1, 2, 0, 2, 1.0, 2.833213344056216, 0],
[1, 1, 1, 1, 5, 1.0, 5.062595033026967, 67],
[1, 0, 0, 0, 5, 1.0, 4.330733340286331, 21],
[1, 0, 0, 0, 5, 1.0, 5.231108616854587, 113],
[1, 1, 1, 0, 5, 1.0, 4.7535901911063645, 18],
[0, 0, 0, 0, 5, 1.0, 4.74493212836325, 37],
[1, 1, 1, 0, 5, 1.0, 4.852030263919617, 72],
[1, 0, 0, 0, 5, 1.0, 4.941642422609304, 78],
[1, 1, 3, 1, 5, 1.0, 4.30406509320417, 8],
[1, 1, 0, 0, 5, 1.0, 4.867534450455582, 84],
[1, 1, 0, 1, 5, 1.0, 4.672828834461906, 31],
[1, 0, 0, 0, 5, 1.0, 4.857444178729353, 61],
[1, 1, 0, 0, 5, 1.0, 4.718498871295094, 19],
[1, 1, 0, 0, 5, 1.0, 5.556828061699537, 107],
[1, 1, 0, 0, 5, 1.0, 4.553876891600541, 34],
[1, 0, 0, 1, 5, 1.0, 4.890349128221754, 74],
[1, 1, 2, 0, 5, 1.0, 5.123963979403259, 62],
```

```
[1, 0, 0, 0, 5, 1.0, 4.787491742782046, 27],
[0, 0, 0, 0, 5, 0.0, 4.919980925828125, 108],
[0, 0, 0, 0, 5, 1.0, 5.365976015021851, 103],
[1, 1, 0, 1, 5, 1.0, 4.74493212836325, 38],
[0, 0, 0, 0, 5, 0.0, 4.330733340286331, 13],
[1, 1, 2, 0, 5, 1.0, 4.890349128221754, 69],
[1, 1, 1, 0, 5, 1.0, 5.752572638825633, 112],
[1, 1, 0, 0, 5, 1.0, 5.075173815233827, 73],
[1, 0, 0, 0, 5, 1.0, 4.912654885736052, 47],
[1, 1, 0, 0, 5, 1.0, 5.204006687076795, 81],
[1, 0, 0, 1, 5, 1.0, 4.564348191467836, 60],
[1, 0, 0, 0, 5, 1.0, 4.204692619390966, 83],
[0, 1, 0, 0, 5, 1.0, 4.867534450455582, 5],
[1, 1, 2, 1, 5, 1.0, 5.056245805348308, 58],
[1, 1, 1, 1, 3, 1.0, 4.919980925828125, 79],
[0, 1, 0, 0, 5, 1.0, 4.969813299576001, 54],
[1, 1, 0, 1, 4, 1.0, 4.820281565605037, 56],
[1, 0, 0, 0, 5, 1.0, 4.499809670330265, 120],
[1, 0, 3, 0, 5, 1.0, 5.768320995793772, 118],
[1, 1, 2, 0, 5, 1.0, 4.718498871295094, 101],
[0, 0, 0, 0, 5, 0.0, 4.7535901911063645, 26],
[0, 0, 0, 0, 6, 1.0, 4.727387818712341, 33],
[1, 1, 1, 0, 5, 1.0, 6.214608098422191, 119],
[0, 0, 0, 0, 5, 1.0, 5.267858159063328, 89],
[1, 1, 2, 0, 5, 1.0, 5.231108616854587, 92],
[1, 0, 0, 0, 6, 1.0, 4.2626798770413155, 6],
[1, 1, 0, 0, 0, 1.0, 4.709530201312334, 90],
[1, 1, 0, 0, 5, 1.0, 4.700480365792417, 45],
[1, 1, 2, 0, 5, 1.0, 5.298317366548036, 109],
[1, 0, 1, 0, 3, 1.0, 4.727387818712341, 17],
[1, 1, 1, 0, 5, 1.0, 4.6443908991413725, 36],
[0, 1, 0, 1, 5, 1.0, 4.605170185988092, 16],
[1, 0, 0, 0, 5, 1.0, 4.30406509320417, 7],
[1, 1, 1, 0, 1, 1.0, 5.147494476813453, 88],
[1, 1, 3, 0, 4, 0.0, 5.19295685089021, 87],
[0, 0, 0, 0, 5, 1.0, 4.2626798770413155, 3],
[1, 0, 0, 1, 3, 0.0, 4.836281906951478, 59],
[1, 0, 0, 0, 3, 1.0, 5.1647859739235145, 82],
[1, 0, 0, 0, 5, 1.0, 4.969813299576001, 66],
[1, 1, 2, 1, 5, 1.0, 4.394449154672439, 51],
[1, 1, 1, 0, 5, 1.0, 5.231108616854587, 100],
[1, 1, 0, 0, 5, 1.0, 5.351858133476067, 93],
[1, 1, 0, 0, 5, 1.0, 4.605170185988092, 15],
[1, 1, 2, 0, 5, 1.0, 4.787491742782046, 106],
[1, 0, 0, 0, 3, 1.0, 4.787491742782046, 105],
[1, 1, 3, 0, 5, 1.0, 4.852030263919617, 64],
[1, 0, 0, 0, 5, 1.0, 4.8283137373023015, 49],
[1, 0, 0, 1, 5, 1.0, 4.6443908991413725, 42],
[0, 0, 0, 0, 5, 1.0, 4.477336814478207, 10],
[1, 1, 0, 1, 5, 1.0, 4.553876891600541, 20],
[1, 1, 3, 1, 3, 1.0, 4.394449154672439, 14],
[1, 0, 0, 0, 5, 1.0, 5.298317366548036, 76],
[0, 0, 0, 0, 5, 1.0, 4.90527477843843, 11],
[1, 0, 0, 0, 6, 1.0, 4.727387818712341, 18],
[1, 1, 2, 0, 5, 1.0, 4.248495242049359, 23],
[1, 1, 0, 1, 5, 0.0, 5.303304908059076, 63],
[1, 1, 0, 0, 3, 0.0, 4.499809670330265, 48],
[0, 0, 0, 0, 5, 1.0, 4.430816798843313, 30],
[1, 0, 0, 0, 5, 1.0, 4.897839799950911, 29],
[1, 1, 2, 0, 5, 1.0, 5.170483995038151, 86],
[1, 1, 3, 0, 5, 1.0, 4.867534450455582, 115],
[1, 1, 0, 0, 5, 1.0, 6.077642243349034, 116],
[1, 1, 3, 1, 3, 0.0, 4.248495242049359, 40],
[1, 1, 1, 0, 5, 1.0, 4.564348191467836, 12]], dtype=object)
```

```
In [24]: Labelencoder_y = LabelEncoder()
```

```
y_test= Labelencoder_y.fit_transform(y_test)
```

```
y_test
```

```
Out[24]: array([[1, 0, 1, 0, 1, 0, 1, 1, 0, 1, 1, 1, 1, 1, 0, 0, 1, 1, 0, 0, 1,
1, 1, 1, 1, 1, 1, 0, 0, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 0, 1, 1,
1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 0, 1, 0, 1, 1,
1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 0, 1, 0, 0, 1, 0, 1, 1, 1,
1, 1, 1, 0, 0, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 0,
1, 0, 0, 1, 0, 1, 1, 1, 1, 1, 1, 0, 1])
```

```
In [25]: from sklearn.preprocessing import StandardScaler
```

```
ss = StandardScaler()
```

```
X_train = ss.fit_transform(x_train)
```

```
x_test = ss.fit_transform(x_test)
```

```
In [26]: from sklearn.tree import DecisionTreeClassifier
```

```
DT=DecisionTreeClassifier(criterion='entropy',random_state=0)
```

```
DT.fit(x_train,y_train)
```

```
In [27]: y_pred=DT.predict(x_test)
          y_pred
```

```
In [28]: from sklearn import metrics
ac_dt=metrics.accuracy_score(y_pred,y_test)
print("Accuracy of Decision Tree Classifier is: ",ac_dt)

Accuracy of Decision Tree Classifier is:  0.2682926829268293
```

```
Out[29]: 0.6925376211090497
```

```
In [31]: from sklearn import metrics
y_pred = rf_clf.predict(x_test)

print("acc of random forest clf is", metrics.accuracy_score(y_pred, y_test))
y_pred
```

```
In [33]: y_pred = nb_classifier.predict(x_test)
print("acc of gaussianNB is %.", metrics.accuracy_score(y_pred, y_test) )

acc of gaussianNB is %. 0.2682926829268293
```

[illegible]

```
Out[36]: 0.8003710575139147
```

```
Out[37]: SVC()
```

```
9... 1901... y_pred_cvm = predict(y_test)
```



```
In [49]: testdata.head()
```

Out[49]:

	Loan_ID	Gender	Married	Dependents	Education	Self_Employed	ApplicantIncome	CoapplicantIncome	LoanAmount	Loan_Amount_Term
0	LP001002	Male	No	0	Graduate	No	5849	0.0	NaN	360.
1	LP001003	Male	Yes	1	Graduate	No	4583	1508.0	128.0	360.
2	LP001005	Male	Yes	0	Graduate	Yes	3000	0.0	66.0	360.
3	LP001006	Male	Yes	0	Not Graduate	No	2583	2358.0	120.0	360.
4	LP001008	Male	No	0	Graduate	No	6000	0.0	141.0	360.

In [50]:

```
df.to_csv('output.csv',index=False)
```

In [51]:

```
pd.read_csv('output.csv')
```

Out[51]:

	Loan_ID	Gender	Married	Dependents	Education	Self_Employed	ApplicantIncome	CoapplicantIncome	LoanAmount	Loan_Amount_Term
0	LP001002	Male	No	0	Graduate	No	5849	0.0	146.412162	360.
1	LP001003	Male	Yes	1	Graduate	No	4583	1508.0	128.000000	360.
2	LP001005	Male	Yes	0	Graduate	Yes	3000	0.0	66.000000	360.
3	LP001006	Male	Yes	0	Not Graduate	No	2583	2358.0	120.000000	360.
4	LP001008	Male	No	0	Graduate	No	6000	0.0	141.000000	360.
...	...	...	...	...	...	...	...	...	...	...
609	LP002978	Female	No	0	Graduate	No	2900	0.0	71.000000	360.
610	LP002979	Male	Yes	3+	Graduate	No	4106	0.0	40.000000	180.
611	LP002983	Male	Yes	1	Graduate	No	8072	240.0	253.000000	360.
612	LP002984	Male	Yes	2	Graduate	No	7583	0.0	187.000000	360.
613	LP002990	Female	No	0	Graduate	Yes	4583	0.0	133.000000	360.

614 rows × 16 columns