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data.describe()

	ApplicantIncome	CoapplicantIncome	LoanAmount	Loan_Amount_Term	Credit_History
count	367.000000	367.000000	362.000000	361.000000	338.000000
mean	4805.599455	1569.577657	136.132597	342.537396	0.825444
std	4910.685399	2334.232099	61.366652	65.156643	0.380150
min	0.000000	0.000000	28.000000	5.000000	0.000000
25%	2864.000000	0.000000	100.250000	360.000000	1.000000
50%	3786.000000	1025.000000	125.000000	360.000000	1.000000
75%	5060.000000	2430.500000	158.000000	360.000000	1.000000
max	72529.000000	24000.000000	550.000000	480.000000	1.000000

```
[ ] plt.figure(figsize=(12,5))
plt.subplot(121)
sns.distplot(data['ApplicantIncome'],color='r')
plt.subplot(122)
sns.distplot(data['credit_history'])
plt.show
```

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```
[ ] plt.figure(figsize=(12,5))
plt.subplot(121)
sns.distplot(data['ApplicantIncome'],color='r')
plt.subplot(122)
sns.distplot(data['credit_history'])
plt.show
```

```
#plotting the count plot
plt.figure(figsize=(18,4))
plt.subplot(1,4,1)
sns.countplot(data['Gender'])
plt.subplot(1,4,2)
sns.countplot(data['Education'])
plt.show()
```

```
plt.figure(figsize=(20,5))
plt.subplot(131)
sns.countplot(data['Married'],hue=data['Gender'])
plt.subplot(132)
sns.countplot(data['Self-employed'],hue=data['Education'])
plt.subplot(133)
sns.countplot(data['Property_area'],hue=data['loan_amount_Term'])
```

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```
[ ] sns.countplot(data['Education'])
plt.show()

[ ] plt.figure(figsize=(20,5))
plt.subplot(131)
sns.countplot(data['Married'],hue=data['Gender'])
plt.subplot(132)
sns.countplot(data['Self-employed'],hue=data['Education'])
plt.subplot(133)
sns.countplot(data['Property_area'],hue=data['loan_amount_Term'])

[ ] sns.swarmplot(data['Gender'], data['ApplicantIncome'], hue['Loan_Status'])

[ ] sc=StandardScaler()
x_bal=sc.fit_transform(x_bal)
x_bal=pd.DataFrame(x_bal,columns=names)

X_train, X_test, y_train, y_test = train_test_split(
    x_bal, y_bal, test_size=0.33, random_state=42)

[ ] def decisionTree(x_train, x_test, y_train, y_test):
```

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