

```
In [1]: import numpy as np
import pandas as pd
import seaborn as sns
from sklearn.model_selection import train_test_split
from sklearn.tree import DecisionTreeClassifier
```

```
In [4]: df=pd.read_csv(r"C:\Users\DELL\Downloads\loan1 (1).csv")
df
```

```
Out[4]:
```

	Home Owner	Marital Status	Annual Income	Defaulted Borrower
0	Yes	Single	125	No
1	No	Married	100	No
2	No	Single	70	No
3	Yes	Married	120	No
4	No	Divorced	95	Yes
5	No	Married	60	No
6	Yes	Divorced	220	No
7	No	Single	85	Yes
8	No	Married	75	No
9	No	Single	90	Yes

```
In [5]: df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10 entries, 0 to 9
Data columns (total 4 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Home Owner            10 non-null    object
1   Marital Status        10 non-null    object
2   Annual Income         10 non-null    int64
3   Defaulted Borrower    10 non-null    object
dtypes: int64(1), object(3)
memory usage: 452.0+ bytes
```

```
In [6]: df['Marital Status'].value_counts()
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```
Out[6]: Marital Status
Single      4
Married     4
Divorced    2
Name: count, dtype: int64
```