In [1]:

```
import pandas as pd
```

In [2]:

```
import numpy as np
```

In [3]:

```
df = pd.read_csv(r'https://github.com/YBI-Foundation/Dataset/raw/main/Customer%20Purchase.c
```

In [5]:

```
df.head()
```

Out[5]:

	Customer ID	Age	Gender	Education	Review	Purchased
0	1021	30	Female	School	Average	No
1	1022	68	Female	UG	Poor	No
2	1023	70	Female	PG	Good	No
3	1024	72	Female	PG	Good	No
4	1025	16	Female	UG	Average	No

In [6]:

```
df.shape
```

Out[6]:

```
(50, 6)
```

In [7]:

```
df.columns
```

Out[7]:

```
Index(['Customer ID', 'Age', 'Gender', 'Education', 'Review', 'Purchased'],
dtype='object')
```

In [8]:

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 50 entries, 0 to 49
Data columns (total 6 columns):
 #   Column       Non-Null Count  Dtype 
---  ------       --------------  ----- 
 0   Customer ID  50 non-null     int64 
 1   Age          50 non-null     int64 
 2   Gender       50 non-null     object
 3   Education    50 non-null     object
 4   Review       50 non-null     object
 5   Purchased    50 non-null     object
dtypes: int64(2), object(4)
memory usage: 2.5+ KB
```

In [9]:

```
y = df['Purchased']
```

In [10]:

```
y
```

Out[10]:

```
0      No
1      No
2      No
3      No
4      No
5     Yes
6      No
7     Yes
8      No
9     Yes
10    Yes
11    Yes
12     No
13     No
14    Yes
15     No
16    Yes
17    Yes
18     No
19    Yes
20    Yes
21     No
22    Yes
23     No
24    Yes
25     No
26     No
27     No
28     No
29    Yes
30     No
31    Yes
32    Yes
33    Yes
34     No
35    Yes
36    Yes
37    Yes
38     No
39     No
40     No
41    Yes
42    Yes
43     No
44     No
45    Yes
46     No
47    Yes
48    Yes
49     No
Name: Purchased, dtype: object
```

In [11]:

```
from sklearn.preprocessing import LabelEncoder
```

In [12]:

```
le = LabelEncoder()
```

In [13]:

```
y = le.fit_transform(y)
```

In [14]:

```
y
```

Out[14]:

```
array([0, 0, 0, 0, 0, 1, 0, 1, 0, 1, 1, 1, 0, 0, 1, 0, 1, 1, 0, 1, 1, 0,
       1, 0, 1, 0, 0, 0, 0, 1, 0, 1, 1, 1, 0, 1, 1, 1, 0, 0, 0, 1, 1, 0,
       0, 1, 0, 1, 1, 0])
```

In [15]:

```
le.classes_
```

Out[15]:

```
array(['No', 'Yes'], dtype=object)
```

In [16]:

```
le.inverse_transform([0,0,1,1])
```

Out[16]:

```
array(['No', 'No', 'Yes', 'Yes'], dtype=object)
```

In [ ]:

```

```