Q.2) Create a dataset data.csv having two categorical column (the country column, and the purchased column).

a. Apply OneHot coding on Country column.

b. Apply Label encoding on purchased column

In [2]:
```
import pandas as pd
from sklearn.preprocessing import LabelEncoder

df = pd.DataFrame(columns=['country', 'purchased'])

df.loc[0] = ['USA', 'Yes']
df.loc[1] = ['Canada', 'No']
df.loc[2] = ['UK', 'Yes']
df.loc[3] = ['Germany', 'No']
df.loc[4] = ['France', 'Yes']
df.loc[5] = ['USA', 'No']
df.loc[6] = ['Germany', 'Yes']
df.loc[7] = ['Canada', 'Yes']
df.to_csv('slip27_demo_data.csv', index=False) # file madhe data write kela

df = pd.read_csv('slip27_demo_data.csv') # atta create kela la csv file open keli

df_one_hot = pd.get_dummies(df, columns=['country'], drop_first=True) #Apply OneHot coding on Country c

le = LabelEncoder() # Apply Label Encoding on the purchased column
df_one_hot['purchased'] = le.fit_transform(df_one_hot['purchased'])

print(df_one_hot)
```

```
   purchased  country_France  country_Germany  country_UK  country_USA
0          1           False            False       False         True
1          0           False            False       False        False
2          1           False            False        True        False
3          0           False             True       False        False
4          1            True            False       False        False
5          0           False            False       False         True
6          1           False             True       False        False
7          1           False            False       False        False
```