

# I worked with Muhammad Asim(2211-016-KHI-DEG)

```
In [211]: 1 import pandas as pd
          2 df = pd.read_csv('toy_dataset.csv')
          3 df.head()
```

Out[211]:

	Number	City	Gender	Age	Income	Illness
0	1	Dallas	Male	41	40367.0	No
1	2	Dallas	Male	54	45084.0	No
2	3	Dallas	Male	42	52483.0	No
3	4	Dallas	Male	40	40941.0	No
4	5	Dallas	Male	46	50289.0	No

```
In [212]: 1 def label_encoder(df: pd.DataFrame, columns_to_encode) -> pd.DataFrame:
          2     for col in columns_to_encode:
          3         df[col] = df[col].astype('category')
          4         df[col] = df[col].cat.codes
          5     return df
```

```
In [213]: 1 label_encoder(df, ["Gender", "City"])
```

Out[213]:

	Number	City	Gender	Age	Income	Illness
0	1	2	1	41	40367.0	No
1	2	2	1	54	45084.0	No
2	3	2	1	42	52483.0	No
3	4	2	1	40	40941.0	No
4	5	2	1	46	50289.0	No
...	...	...	...	...	...	...
149995	149996	0	1	48	93669.0	No
149996	149997	0	1	25	96748.0	No
149997	149998	0	1	26	111885.0	No
149998	149999	0	1	25	111878.0	No
149999	150000	0	0	37	87251.0	No

150000 rows × 6 columns