

```
import pandas as pd
import numpy as np
```

## creating initial dataframe

```
bridge_types = ('Arch','Bean','Truss','Cantilever','Tied Arch','Suspention','Cable')
bridge_df = pd.DataFrame(bridge_types,columns=['Bridge_Types'])
bridge_df['Bridge_Types'] = bridge_df['Bridge_Types'].astype('category')
bridge_df['Bridge_Types_Cat'] = bridge_df['Bridge_Types'].cat.codes
print(bridge_df)
```

	Bridge_Types	Bridge_Types_Cat
0	Arch	0
1	Bean	1
2	Truss	6
3	Cantilever	3
4	Tied Arch	5
5	Suspention	4
6	Cable	2

## using skikit learn

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

```
bridge_types = ('Arch','Bean','Truss','Cantilever','Tied Arch','Suspention','Cable')
bridge_df = pd.DataFrame(bridge_types,columns=['Bridge_Types'])
labelencoder = LabelEncoder()
bridge_df['Bridge_Types_Cat'] = labelencoder.fit_transform(bridge_df['Bridge_Types'])
print(bridge_df)
```

	Bridge_Types	Bridge_Types_Cat
0	Arch	0
1	Bean	1
2	Truss	6
3	Cantilever	3
4	Tied Arch	5
5	Suspention	4
6	Cable	2

✓ 0s completed at 23:51

