Experiment 7 : Data Wrangling

```
# importing dependencies
import pandas as pd
import seaborn as sns
import numpy as np
```

```
df1 = {'Name' : ['George', 'Andrea', 'Michael', 'Bhawana', 'Shristy', 'Sakshi'],
       'Score': [63,48,75, 80, 90, 100]}
df1 = pd.DataFrame(df1, columns = ['Name', 'Score'])
df1
```

	Name	Score
0	George	63
1	Andrea	48
2	Michael	75
3	Bhawana	80
4	Shristy	90
5	Sakshi	100

```
bins= [0,25,50,75,100]
df1['binned'] = pd.cut(df1['Score'], bins)
df1
```

	Name	Score	binned
0	George	63	(50, 75]
1	Andrea	48	(25, 50]
2	Michael	75	(50, 75]
3	Bhawana	80	(75, 100]
4	Shristy	90	(75, 100]
5	Sakshi	100	(75, 100]

```
bins= [0,25,50,75,100]
labels =['D', 'C', 'B', 'A']
df1['binned'] = pd.cut(df1['Score'], bins, labels=labels)
df1
```

	Name	Score	binned
0	George	63	B
1	Andrea	48	C
2	Michael	75	B
3	Bhawana	80	A
4	Shristy	90	A
5	Sakshi	100	A

Label Encoding

```
X = np.random.uniform(0.0, 1.0, size=(10,2))
Y = np.random.choice(('Male', 'Female'), size=(10))
```

```
Y
```

```
array(['Male', 'Female', 'Female', 'Female', 'Female', 'Female', 'Male',
       'Male', 'Male', 'Female'], dtype='<U6')
```

```
from sklearn.preprocessing import LabelEncoder
le = LabelEncoder()
yt = le.fit_transform(Y)
yt
```

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

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