I. Access dataset

import pandas as pd
import numpy as np
from sklearn.neighbors import NearestNeighbors

df = pd.read_csv('/content/drive/MyDrive/MSBA_Colab_2020/ML_Algorithms/movies_recommendation_data.csv')

df.head()

	Movie ID	Movie Name	IMDB Rating	Biography	Drama	Thriller	Comedy	Crime	Mystery	History	Label
0	58	The Imitation Game	8.0	1	1	1	0	0	0	0	0
1	8	Ex Machina	7.7	0	1	0	0	0	1	0	0
2	46	A Beautiful Mind	8.2	1	1	0	0	0	0	0	0
3	62	Good Will Hunting	8.3	0	1	0	0	0	0	0	0
4	97	Forrest Gump	8.8	0	1	0	0	0	0	0	0

df.info()

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 30 entries, 0 to 29
Data columns (total 11 columns):

Jaca	COTUMINS (COC	ar ir corumns).	
#	Column	Non-Null Count	Dtype
0	Movie ID	30 non-null	int64
1	Movie Name	30 non-null	object
2	IMDB Rating	30 non-null	float64
3	Biography	30 non-null	int64
4	Drama	30 non-null	int64

```
Thriller
                  30 non-null
                                  int64
    Comedy
                 30 non-null
                                  int64
    Crime
                  30 non-null
                                  int64
                  30 non-null
    Mystery
                                  int64
    History
                  30 non-null
                                  int64
 10 Label
                  30 non-null
                                  int64
dtypes: float64(1), int64(9), object(1)
memory usage: 2.7+ KB
```

II. Split the data to y and x

```
df.drop(columns=['Label','Movie ID'], inplace= True)

x = df.iloc[:, 1:].values
y = df.iloc[:, 0].values
```

III. Set up the Method for Nearest Neighbor model

IV. Apply the values and check the prediction

```
prediction = (neigh.kneighbors([[7.2,1,1,0,0,0,0,1]], return_distance=False))
prediction

[] array([[28, 27, 29, 16, 2]])
```

✓ 0s completed at 9:51 PM