```python
print('hai')
```

```
hai
```

```python
import pandas as pd

df  = pd.read_csv(r"C:\Users\ttwrd\Downloads\data.csv")
df
```

```
           CountryName CountryCode  BirthRate  InternetUsers  \
0                Aruba         ABW     10.244           78.9
1          Afghanistan         AFG     35.253            5.9
2               Angola         AGO     45.985           19.1
3              Albania         ALB     12.877           57.2
4   United Arab Emirates        ARE     11.044           88.0
..                 ...         ...        ...            ...
190        Yemen, Rep.         YEM     32.947           20.0
191       South Africa         ZAF     20.850           46.5
192   Congo, Dem. Rep.         COD     42.394            2.2
193             Zambia         ZMB     40.471           15.4
194           Zimbabwe         ZWE     35.715           18.5

            IncomeGroup
0           High income
1            Low income
2   Upper middle income
3   Upper middle income
4           High income
..                  ...
190  Lower middle income
191  Upper middle income
192          Low income
193  Lower middle income
194          Low income

[195 rows x 5 columns]
```

```python
rating = pd.read_csv(r"C:\Users\ttwrd\Downloads\rating.csv")
rating
```

```
          userId  movieId  rating            timestamp
0              1        2     3.5  2005-04-02 23:53:47
1              1       29     3.5  2005-04-02 23:31:16
2              1       32     3.5  2005-04-02 23:33:39
3              1       47     3.5  2005-04-02 23:32:07
4              1       50     3.5  2005-04-02 23:29:40
...          ...      ...     ...                  ...
20000258  138493    68954     4.5  2009-11-13 15:42:00
20000259  138493    69526     4.5  2009-12-03 18:31:48
20000260  138493    69644     3.0  2009-12-07 18:10:57
```

```
20000261    138493      70286       5.0   2009-11-13 15:42:24
20000262    138493      71619       2.5   2009-10-17 20:25:36
```

```
[20000263 rows x 4 columns]
```

```python
tag = pd.read_csv(r"C:\Users\ttwrd\Downloads\tag.csv")
```

```python
movie= pd.read_csv(r"C:\Users\ttwrd\Downloads\movie.csv")
```

```python
movie.columns
```

```python
Index(['movieId', 'title', 'genres'], dtype='object')
```

```python
movie.shape
```

```
(27278, 3)
```

```python
rating.columns
```

```python
Index(['userId', 'movieId', 'rating', 'timestamp'], dtype='object')
```

```python
rating.shape
```

```
(20000263, 4)
```

```python
tag.columns
```

```python
Index(['userId', 'movieId', 'tag', 'timestamp'], dtype='object')
```

```python
tag.head(5)
```

```
     userId   movieId               tag               timestamp
0        18      4141     Mark Waters    2009-04-24 18:19:40
1        65       208       dark hero    2013-05-10 01:41:18
2        65       353       dark hero    2013-05-10 01:41:19
3        65       521   noir thriller    2013-05-10 01:39:43
4        65       592       dark hero    2013-05-10 01:41:18
```

```python
tag.shape
```

```
(465564, 4)
```

```python
del tag['timestamp']
```

```python
tag.columns
```

```python
Index(['userId', 'movieId', 'tag'], dtype='object')
```

```python
tag.iloc[0]
```

```
userId                 18
movieId              4141
tag          Mark Waters
Name: 0, dtype: object
```

```
len(tag)
```

465564

```
row_0=tag.iloc[0]
row_0
```

```
userId                 18
movieId              4141
tag          Mark Waters
Name: 0, dtype: object
```

```
type(row_0)
```

pandas.core.series.Series

```
print(row_0)
```

```
userId                 18
movieId              4141
tag          Mark Waters
Name: 0, dtype: object
```

```
rows=tag.iloc[0:44]
rows
```

	userId	movieId	tag
0	18	4141	Mark Waters
1	65	208	dark hero
2	65	353	dark hero
3	65	521	noir thriller
4	65	592	dark hero
5	65	668	bollywood
6	65	898	screwball comedy
7	65	1248	noir thriller
8	65	1391	mars
9	65	1617	neo-noir
10	65	1694	jesus
11	65	1783	noir thriller
12	65	2022	jesus
13	65	2193	dragon
14	65	2353	conspiracy theory
15	65	2662	mars
16	65	2726	noir thriller
17	65	2840	jesus
18	65	3052	jesus
19	65	5135	bollywood
20	65	6539	treasure
21	65	6874	dark hero
22	65	7013	noir thriller
23	65	7318	jesus

```
24      65       8529                                   stranded
25      65       8622                          conspiracy theory
26      65      27803    Oscar (Best Foreign Language Film)
27      65      27866                               New Zealand
28      65      48082                                    surreal
29      65      48082                                    unusual
30      65      51884                                  bollywood
31      65      58652                                       cute
32      65      58652                                  emotional
33      65      58652                        girls who play boys
34      65      58652                                Stephen Chow
35      96     106696                                  animation
36      96     106696                                  beautiful
37      96     106696                                 characters
38      96     106696                                     Disney
39      96     106696                                    feminist
40      96     106696                                        Ice
41      96     106696                                      music
42      96     106696                                    musical
43      96     106696                                     pacing
```