

```
In [1]: import pandas as pd
import matplotlib.pyplot as plt
```

```
In [2]: df1= pd.read_csv(r'D:\GenAi\kaggle repositories\IMDB Movie Rating Analysis\movie
df1
```

```
Out[2]:
```

	movielfd	title	genres
0	1	Toy Story (1995)	Adventure Animation Children Comedy Fantasy
1	2	Jumanji (1995)	Adventure Children Fantasy
2	3	Grumpier Old Men (1995)	Comedy Romance
3	4	Waiting to Exhale (1995)	Comedy Drama Romance
4	5	Father of the Bride Part II (1995)	Comedy
...	...	...	...
27273	131254	Kein Bund für's Leben (2007)	Comedy
27274	131256	Feuer, Eis & Dosenbier (2002)	Comedy
27275	131258	The Pirates (2014)	Adventure
27276	131260	Rentun Ruusu (2001)	(no genres listed)
27277	131262	Innocence (2014)	Adventure Fantasy Horror

27278 rows × 3 columns

```
In [3]: df1.head()
```

```
Out[3]:
```

	movielfd	title	genres
0	1	Toy Story (1995)	Adventure Animation Children Comedy Fantasy
1	2	Jumanji (1995)	Adventure Children Fantasy
2	3	Grumpier Old Men (1995)	Comedy Romance
3	4	Waiting to Exhale (1995)	Comedy Drama Romance
4	5	Father of the Bride Part II (1995)	Comedy

```
In [4]: df1.tail()
```

Out[4]:

	movielid	title	genres
<b>27273</b>	131254	Kein Bund für's Leben (2007)	Comedy
<b>27274</b>	131256	Feuer, Eis & Dosenbier (2002)	Comedy
<b>27275</b>	131258	The Pirates (2014)	Adventure
<b>27276</b>	131260	Rentun Ruusu (2001)	(no genres listed)
<b>27277</b>	131262	Innocence (2014)	Adventure Fantasy Horror

In [5]: `df2= pd.read_csv(r'D:\GenAi\kaggle repositories\IMDB Movie Rating Analysis\ratin  
df2`

Out[5]:

	userId	movielid	rating	timestamp
<b>0</b>	1	2	3.5	2005-04-02 23:53:47
<b>1</b>	1	29	3.5	2005-04-02 23:31:16
<b>2</b>	1	32	3.5	2005-04-02 23:33:39
<b>3</b>	1	47	3.5	2005-04-02 23:32:07
<b>4</b>	1	50	3.5	2005-04-02 23:29:40
...	...	...	...	...
<b>20000258</b>	138493	68954	4.5	2009-11-13 15:42:00
<b>20000259</b>	138493	69526	4.5	2009-12-03 18:31:48
<b>20000260</b>	138493	69644	3.0	2009-12-07 18:10:57
<b>20000261</b>	138493	70286	5.0	2009-11-13 15:42:24
<b>20000262</b>	138493	71619	2.5	2009-10-17 20:25:36

20000263 rows × 4 columns

In [6]: `df2[-50:-40]`

Out[6]:

	userId	movieId	rating	timestamp
<b>20000213</b>	138493	40819	4.5	2009-12-07 18:15:26
<b>20000214</b>	138493	41285	4.0	2009-10-17 19:04:25
<b>20000215</b>	138493	42738	4.5	2009-10-17 21:52:58
<b>20000216</b>	138493	44022	4.0	2009-12-07 18:10:49
<b>20000217</b>	138493	44555	5.0	2009-10-17 19:06:00
<b>20000218</b>	138493	45447	2.5	2009-10-17 20:24:53
<b>20000219</b>	138493	45517	2.5	2009-10-28 17:21:50
<b>20000220</b>	138493	45668	3.5	2009-10-17 20:22:10
<b>20000221</b>	138493	45722	3.5	2009-10-17 20:17:32
<b>20000222</b>	138493	46578	4.0	2009-10-17 22:17:53

```
In [7]: md=df1.title[1:10]
md
```

```
Out[7]: 1          Jumanji (1995)
2      Grumpier Old Men (1995)
3      Waiting to Exhale (1995)
4  Father of the Bride Part II (1995)
5          Heat (1995)
6          Sabrina (1995)
7      Tom and Huck (1995)
8      Sudden Death (1995)
9      GoldenEye (1995)
Name: title, dtype: object
```

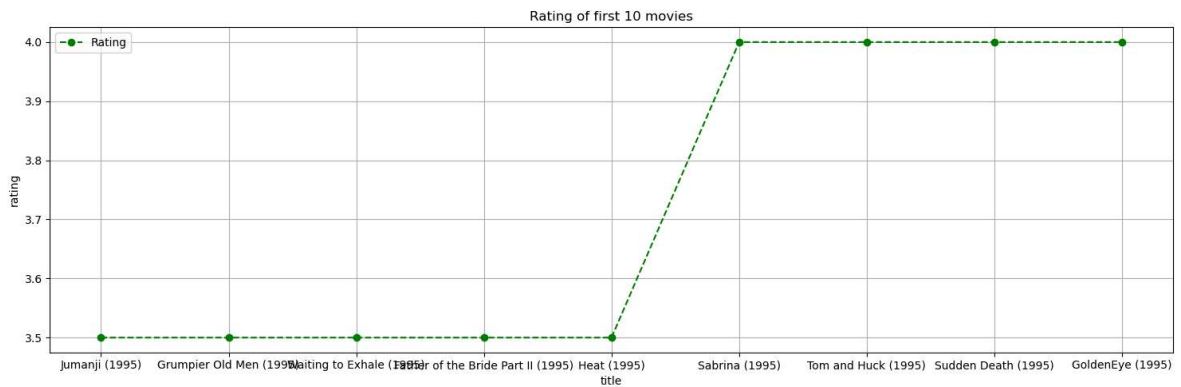
```
In [8]: r=df2.rating[1:10]
r
```

```
Out[8]: 1    3.5
2    3.5
3    3.5
4    3.5
5    3.5
6    4.0
7    4.0
8    4.0
9    4.0
Name: rating, dtype: float64
```

```
In [9]: import matplotlib.pyplot as plt
```

```
In [10]: plt.figure(figsize=(15,5))
plt.title("Rating of first 10 movies")
plt.plot(md,r, ls= '--',color= 'green',marker = 'o',label = 'Rating')
plt.xlabel('title')
plt.ylabel('rating')
plt.grid()
plt.tight_layout()
plt.legend()
```

Out[10]: <matplotlib.legend.Legend at 0x233b61ceea0>



```
In [11]: ld = df1[-10:-1]
ld
```

Out[11]:

	movieId	title	genres
27268	131241	Ants in the Pants (2000)	Comedy Romance
27269	131243	Werner - Gekotzt wird später (2003)	Animation Comedy
27270	131248	Brother Bear 2 (2006)	Adventure Animation Children Comedy Fantasy
27271	131250	No More School (2000)	Comedy
27272	131252	Forklift Driver Klaus: The First Day on the Jo...	Comedy Horror
27273	131254	Kein Bund für's Leben (2007)	Comedy
27274	131256	Feuer, Eis & Dosenbier (2002)	Comedy
27275	131258	The Pirates (2014)	Adventure
27276	131260	Rentun Ruusu (2001)	(no genres listed)

```
In [12]: ld['movieId']
```

Out[12]:

```
27268    131241
27269    131243
27270    131248
27271    131250
27272    131252
27273    131254
27274    131256
27275    131258
27276    131260
Name: movieId, dtype: int64
```

```
In [13]: lr = df2[-10:-1]
lr
```

Out[13]:

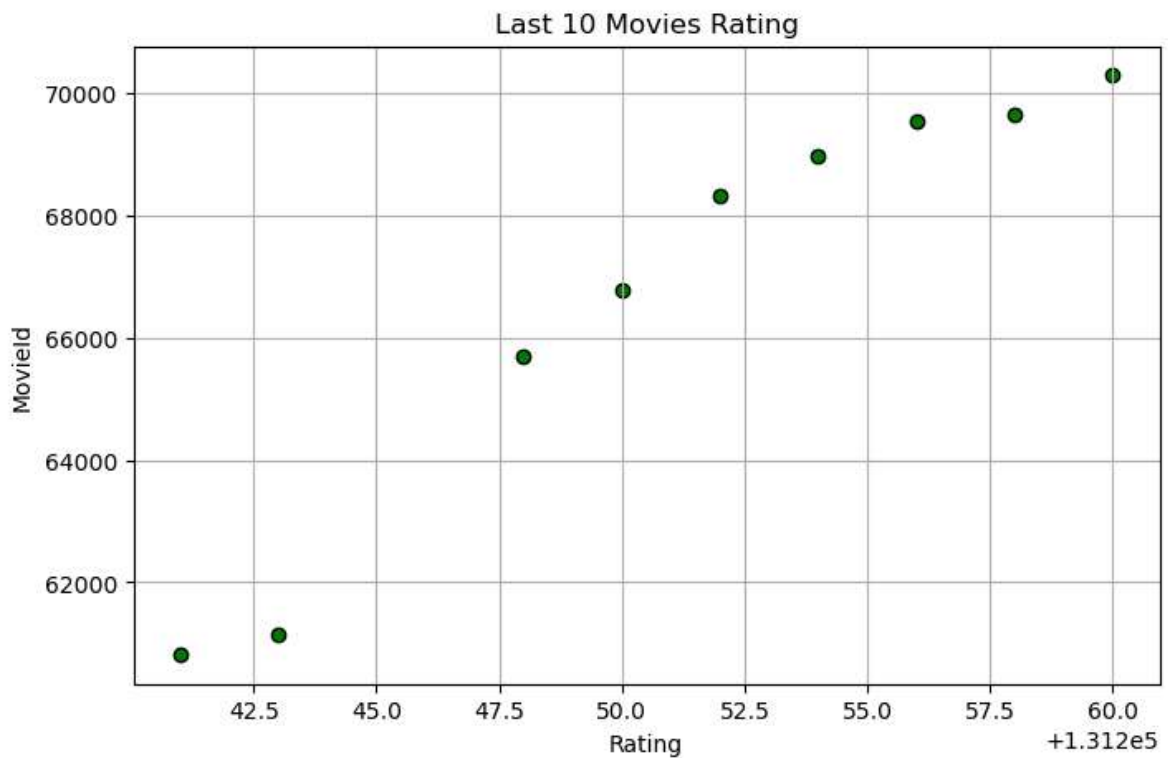
	userId	movieId	rating	timestamp
<b>20000253</b>	138493	60816	4.5	2009-12-03 18:32:43
<b>20000254</b>	138493	61160	4.0	2009-11-16 16:55:37
<b>20000255</b>	138493	65682	4.5	2009-10-17 21:52:53
<b>20000256</b>	138493	66762	4.5	2009-10-17 18:50:08
<b>20000257</b>	138493	68319	4.5	2009-12-07 18:15:20
<b>20000258</b>	138493	68954	4.5	2009-11-13 15:42:00
<b>20000259</b>	138493	69526	4.5	2009-12-03 18:31:48
<b>20000260</b>	138493	69644	3.0	2009-12-07 18:10:57
<b>20000261</b>	138493	70286	5.0	2009-11-13 15:42:24

In [14]: `lr['movieId']`

Out[14]: 20000253 60816  
20000254 61160  
20000255 65682  
20000256 66762  
20000257 68319  
20000258 68954  
20000259 69526  
20000260 69644  
20000261 70286  
Name: movieId, dtype: int64

```
In [15]: plt.figure(figsize=(8,5))
plt.scatter(ld['movieId'],lr['movieId'],color= 'green',edgecolors='black')
plt.title("Last 10 Movies Rating")
plt.grid()
plt.xlabel("Rating")
plt.ylabel("MovieId")
```

Out[15]: Text(0, 0.5, 'MovieId')



In [16]: `tags = pd.read_csv(r'D:\GenAi\kaggle repositories\IMDB Movie Rating Analysis\tags  
tags`

Out[16]:

	userId	movieId	tag	timestamp
<b>0</b>	18	4141	Mark Waters	2009-04-24 18:19:40
<b>1</b>	65	208	dark hero	2013-05-10 01:41:18
<b>2</b>	65	353	dark hero	2013-05-10 01:41:19
<b>3</b>	65	521	noir thriller	2013-05-10 01:39:43
<b>4</b>	65	592	dark hero	2013-05-10 01:41:18
...	...	...	...	...
<b>465559</b>	138446	55999	dragged	2013-01-23 23:29:32
<b>465560</b>	138446	55999	Jason Bateman	2013-01-23 23:29:38
<b>465561</b>	138446	55999	quirky	2013-01-23 23:29:38
<b>465562</b>	138446	55999	sad	2013-01-23 23:29:32
<b>465563</b>	138472	923	rise to power	2007-11-02 21:12:47

465564 rows × 4 columns

In [17]: `tm = tags[-10:-1]  
tm`

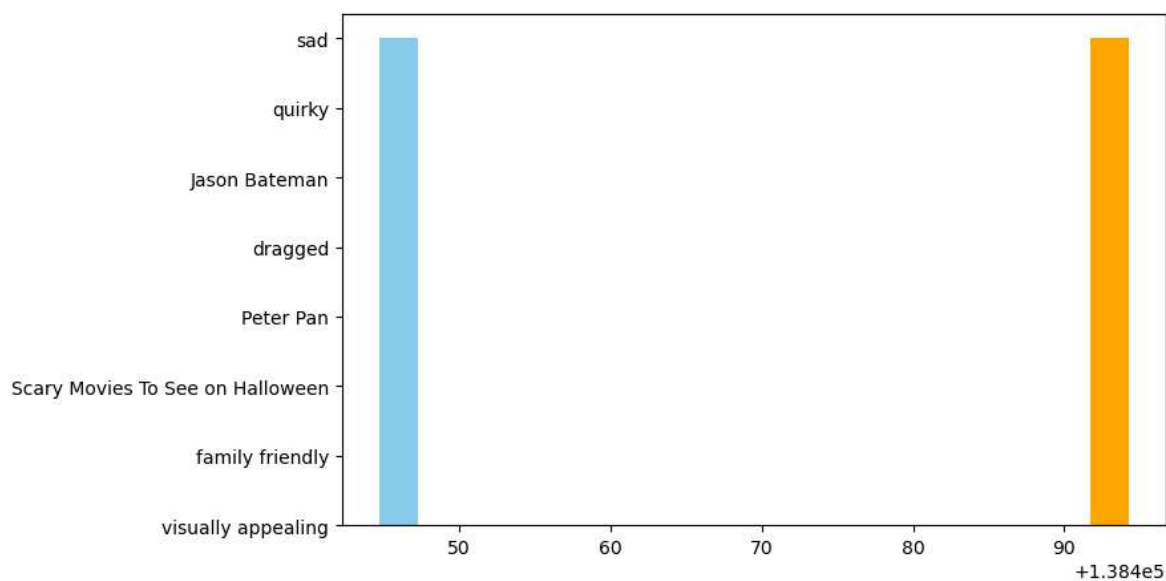
Out[17]:

	userId	movieId	tag	timestamp
<b>465554</b>	138446	3489	visually appealing	2013-01-23 23:30:22
<b>465555</b>	138446	7045	family friendly	2013-01-23 23:27:40
<b>465556</b>	138446	7045	Scary Movies To See on Halloween	2013-01-23 23:27:40
<b>465557</b>	138446	7164	Peter Pan	2013-01-23 23:30:55
<b>465558</b>	138446	7164	visually appealing	2013-01-23 23:30:55
<b>465559</b>	138446	55999	dragged	2013-01-23 23:29:32
<b>465560</b>	138446	55999	Jason Bateman	2013-01-23 23:29:38
<b>465561</b>	138446	55999	quirky	2013-01-23 23:29:38
<b>465562</b>	138446	55999	sad	2013-01-23 23:29:32

In [23]:

```
# plot bar chart
plt.figure(figsize=(8,5))
width = 2.5
plt.bar(tm["userId"],tm["tag"], color = 'skyblue',width=width,label='Tags')
plt.bar(lr["userId"],tm["tag"] , color = 'orange',width= width,label = 'Userid')
```

Out[23]: &lt;BarContainer object of 9 artists&gt;



In [ ]: