

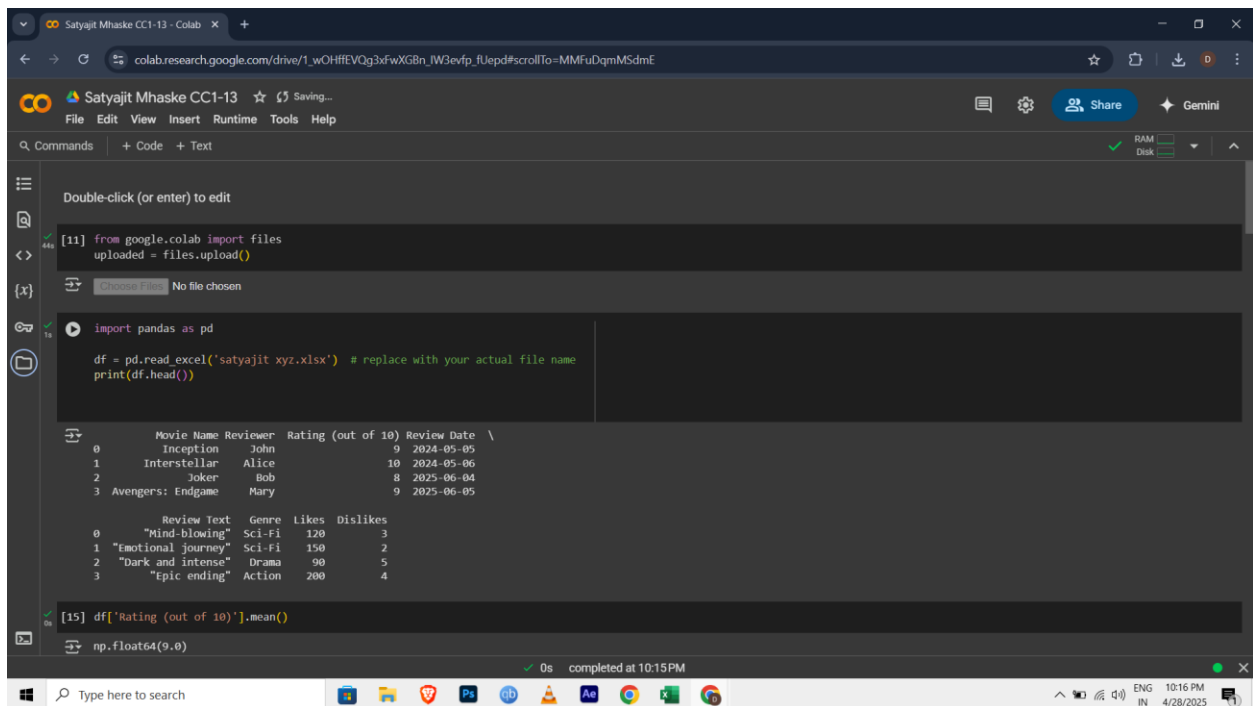
Name – Satyajit mhaske

Batch CC1

Roll no – CC 13

Prn 202401050046

Assignment - 20 problem on datasheet of film review



The screenshot shows a Google Colab notebook titled "Satyajit Mhaske CC1-13". The notebook contains the following code and output:

```
[11] from google.colab import files
      uploaded = files.upload()
```

Choose Files No file chosen

```
import pandas as pd

df = pd.read_excel('satyajit xyz.xlsx') # replace with your actual file name
print(df.head())
```

	Movie Name	Reviewer	Rating (out of 10)	Review Date
0	Inception	John	9	2024-05-05
1	Interstellar	Alice	10	2024-05-06
2	Joker	Bob	8	2025-06-04
3	Avengers: Endgame	Mary	9	2025-06-05

	Review Text	Genre	Likes	Dislikes
0	"Mind-blowing"	Sci-Fi	120	3
1	"Emotional journey"	Sci-Fi	150	2
2	"Dark and intense"	Drama	90	5
3	"Epic ending"	Action	200	4

```
[15] df['Rating (out of 10)'].mean()

np.float64(9.0)
```

completed at 10:15 PM

Satyajit Mhaske CC1-13 - Colab X +

colab.research.google.com/drive/1\_wOHfEVOg3xfwXG8n\_IW3evfp\_fUepd#scrollTo=MMFuDqmMSdmE

Satyajit Mhaske CC1-13 ☆

File Edit View Insert Runtime Tools Help

Commands + Code + Text

Connecting

```
[ ] df['Rating (out of 10)'].mean()
np.float64(9.0)

[ ] df.loc[df['Likes'].idxmax(), 'Movie Name']
'Avengers: Endgame'

[ ] df.groupby('Genre')['Rating (out of 10)'].mean().idxmax()
'Sci-Fi'

[ ] df.loc[df['Rating (out of 10)'].idxmin(), 'Reviewer']
'Bob'

df[df['Genre'] == 'Sci-Fi']['Likes'].sum()
np.int64(270)

[ ] (df['Rating (out of 10)'] > 8).sum()
np.int64(3)

[ ] df.groupby('Genre')['Dislikes'].mean()
Dislikes
```

Connecting to Python 3 Google Compute Engine backend

Type here to search

ENG IN 10:16 PM 4/28/2025

Satyajit Mhaske CC1-13 - Colab X +

colab.research.google.com/drive/1\_wOHfEVOg3xfwXG8n\_IW3evfp\_fUepd#scrollTo=MMFuDqmMSdmE

Satyajit Mhaske CC1-13 ☆

File Edit View Insert Runtime Tools Help

Commands + Code + Text

RAM Disk

```
[21] df.groupby('Genre')['Dislikes'].mean()
Dislikes
Genre
Action    4.0
Drama     5.0
Sci-Fi    2.5
dtype: float64

[22] df.loc[df['Review Date'].idxmin(), 'Movie Name']
'Inception'

df['Likes'] / (df['Dislikes'] + 1)
0    30.0
1    50.0
2    15.0
3    40.0
dtype: float64
```

Connected to Python 3 Google Compute Engine backend

Type here to search

ENG IN 10:16 PM 4/28/2025

Satyajit Mhaske CC1-13 - Colab

colab.research.google.com/drive/1\_wOH#fEVQg3xfwXG8n\_IW3evfp\_fUepd#scrollTo=MMFuQmMSdme

Satyajit Mhaske CC1-13

File Edit View Insert Runtime Tools Help

Commands + Code + Text

```
[24] df[df['Rating (out of 10)'] == 10]['Reviewer']
```

Reviewer

1	Alice
---	-------

dtype: object

```
[25] df['Rating (out of 10)'].median()
```

9.0

```
[38] df['Rating (out of 10)'].std()
```

0.816496580927726

```
[32] df['Total_Reactions'] = df['Likes'] + df['Dislikes']
```

```
[33] (df['Genre'] == 'Sci-Fi').sum()
```

np.int64(2)

```
[34] df.loc[df['Likes'].idxmax(), 'Review Text']
```

"Epic ending"

```
df['Dislikes'].max()
```

Connected to Python 3 Google Compute Engine backend

Type here to search

10:17 PM 4/28/2025

Satyajit Mhaske CC1-13 - Colab

colab.research.google.com/drive/1\_wOH#fEVQg3xfwXG8n\_IW3evfp\_fUepd#scrollTo=zFISrtV8RUCQ

Satyajit Mhaske CC1-13

File Edit View Insert Runtime Tools Help

Commands + Code + Text

```
[35] df['Dislikes'].max()
```

5

```
[36] df.groupby("Reviewer")['Likes'].mean()
```

Likes

Reviewer	Likes
Alice	150.0
Bob	90.0
John	120.0
Mary	200.0

dtype: float64

```
df[df['Likes'] > 100]['Movie Name']
```

Movie Name

0	Inception
1	Interstellar
3	Avengers: Endgame

dtype: object

Connected to Python 3 Google Compute Engine backend

Type here to search

10:17 PM 4/28/2025

Satyajit Mhaske CC1-13 - Colab X +

colab.research.google.com/drive/1\_wOH#fEVQg3xFwXG8n\_IW3evfp\_fUepd#scrollTo=zFISrtV8RUCQ

Satyajit Mhaske CC1-13 ☆

File Edit View Insert Runtime Tools Help

Commands + Code + Text

```
[41] df['Review_Length'] = df['Review Text'].str.len()
[42] df['Likes'] - df['Dislikes']
```

0 117  
1 148  
2 85  
3 196  
dtype: int64

```
df.sort_values('Rating (out of 10)', ascending=False)
```

	Movie Name	Reviewer	Rating (out of 10)	Review Date	Review Text	Genre	Likes	Dislikes	Total_Reactions	Review_Length
1	Interstellar	Alice	10	2024-05-06	"Emotional journey"	Sci-Fi	150	2	152	19
0	Inception	John	9	2024-05-05	"Mind-blowing"	Sci-Fi	120	3	123	14
3	Avengers: Endgame	Mary	9	2025-06-05	"Epic ending"	Action	200	4	204	13
2	Joker	Bob	8	2025-06-04	"Dark and intense"	Drama	90	5	95	18

```
[44] df.groupby('Genre')['Likes'].mean()
```

Connected to Python 3 Google Compute Engine backend

Type here to search

ENG IN 10:17 PM 4/28/2025

Satyajit Mhaske CC1-13 - Colab X +

colab.research.google.com/drive/1\_wOH#fEVQg3xFwXG8n\_IW3evfp\_fUepd#scrollTo=zFISrtV8RUCQ

Satyajit Mhaske CC1-13 ☆

File Edit View Insert Runtime Tools Help

Commands + Code + Text

```
[44] df.groupby('Genre')['Likes'].mean()
```

Likes

Genre	Likes
Action	200.0
Drama	90.0
Sci-Fi	135.0

dtype: float64

Connected to Python 3 Google Compute Engine backend

Type here to search

ENG IN 10:18 PM 4/28/2025