

Home

Main Flow Task 6

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jupyter

Main Flow Task 6

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JupyterLab Python 3 (ipykernel)

[4]:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
```

[5]:

```
df = pd.read_csv('C:\\Users\\aadil\\Downloads\\disney_plus_titles.csv')
```

[6]:

```
df.head()
```

[6]:

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
0	s1	Movie	A Spark Story	Jason Serman, Leanne Dare	Aphthon Corbin, Louis Gonzales	NaN	September 24, 2021	2021	TV-PG	88 min	Documentary	Two Pixar filmmakers strive to bring their uni...
1	s2	Movie	Spooky Buddies	Robert Vince	Tucker Albrizzi, Diedrich Bader, Ameko Eks Mas...	United States, Canada	September 24, 2021	2011	G	93 min	Comedy, Fantasy, Kids	The puppies go on a spooky adventure through a...
2	s3	Movie	The Fault in Our Stars	Josh Boone	Shailene Woodley, Ansel Elgort, Laura Dern, Sa...	United States	September 24, 2021	2014	PG-13	127 min	Coming of Age, Drama, Romance	Hazel and Gus share a love that sweeps them on...
3	s4	TV Show	Dog: Impossible	NaN	Matt Beisner	United States	September 22, 2021	2019	TV-PG	2 Seasons	Animals & Nature, Docuseries, Family	Matt Beisner uses unique approaches to modifyi...
4	s5	TV Show	Spidey And His Amazing Friends	NaN	Benjamin Valic, Lily Sanfelippo, Jakari Fraser...	United States	September 22, 2021	2021	TV-Y	1 Season	Action-Adventure, Animation, Kids	Spidey teams up with pals to become The Spidey...

[7]:

```
df.tail()
```

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JupyterLab 🖱️ ⚙️ Python 3 (ipykernel) ○

```
[7]: df.tail()
```

```
[7]:
```

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
1363	s1364	Movie	The Sword in the Stone	Wolfgang Reitherman	Sebastian Cabot, Karl Swenson, Rickie Sorensen...	United States	October 1, 2019	1963	G	80 min	Action-Adventure, Animation, Comedy	Merlin trains a young orphan who's destined to...
1364	s1365	Movie	Those Calloways	Norman Tokar	Brian Keith, Vera Miles, Brandon de Wilde, Wal...	United States	October 1, 2019	1965	PG	132 min	Animals & Nature, Drama, Family	A strong-willed family struggles to establish ...
1365	s1366	TV Show	Disney Kirby Buckets	NaN	Jacob Bertrand, Mekai Curtis, Cade Sutton, Oli...	United States	NaN	2014	TV-Y7	3 Seasons	Action-Adventure, Comedy, Coming of Age	Welcome to Kirby's world! It's rude and sketchy.
1366	s1367	TV Show	Disney Mech-X4	NaN	Nathaniel Potvin, Raymond Cham, Kamran Lucas, ...	Canada	NaN	2016	TV-Y7	2 Seasons	Action-Adventure, Comedy, Science Fiction	Ryan discovers his ability to control a giant ...
1367	s1368	TV Show	Imagination Movers	NaN	Rich Collins, Dave Poche, Scott Durbin, Scott ...	United States	NaN	2008	TV-Y	3 Seasons	Kids, Music	Rock out with the Imagination Movers, Disney J...

```
[12]: df.columns.values
```

```
[12]: array(['show_id', 'type', 'title', 'director', 'cast', 'country',  
      'date_added', 'release_year', 'rating', 'duration', 'listed_in',  
      'description'], dtype=object)
```

```
[14]: df.shape
```

```
[14]: (1368, 12)
```

```
[16]: df = df.drop_duplicates()
```

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JupyterLab Python 3 (ipykernel)

```
[16]: df = df.drop_duplicates()

[18]: df.shape

[18]: (1368, 12)

[20]: df.describe()

[20]:
```

	release_year
count	1368.000000
mean	2002.348684
std	22.127559
min	1928.000000
25%	1998.000000
50%	2011.000000
75%	2018.000000
max	2021.000000

```


[22]: df.isna().sum()

[22]: show_id      0
      type        0
      title       0
      director    440
      cast        174
      country     175
      date_added   3
      release_year 0
      rating      2
```

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JupyterLabPython 3 (ipykernel)

country1368
date_added3
release_year0
rating2
duration0
listed_in0
description0
dtype: int64

[24]: df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1368 entries, 0 to 1367
Data columns (total 12 columns):
Column Non-Null Count Dtype

0 show_id 1368 non-null object
1 type 1368 non-null object
2 title 1368 non-null object
3 director 928 non-null object
4 cast 1194 non-null object
5 country 1193 non-null object
6 date_added 1365 non-null object
7 release_year 1368 non-null int64
8 rating 1366 non-null object
9 duration 1368 non-null object
10 listed_in 1368 non-null object
11 description 1368 non-null object
dtypes: int64(1), object(11)
memory usage: 128.4+ KB

[36]: # replace the null values with a specified value
data = df.fillna(value=0)
data

[36]:

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
0	1	TV-14	A Good Story	Jason Statham	Aphron Corbin,	USA	September 1, 2021	2021	TV-14	88 min	Documentary	Two Pixar films make a story

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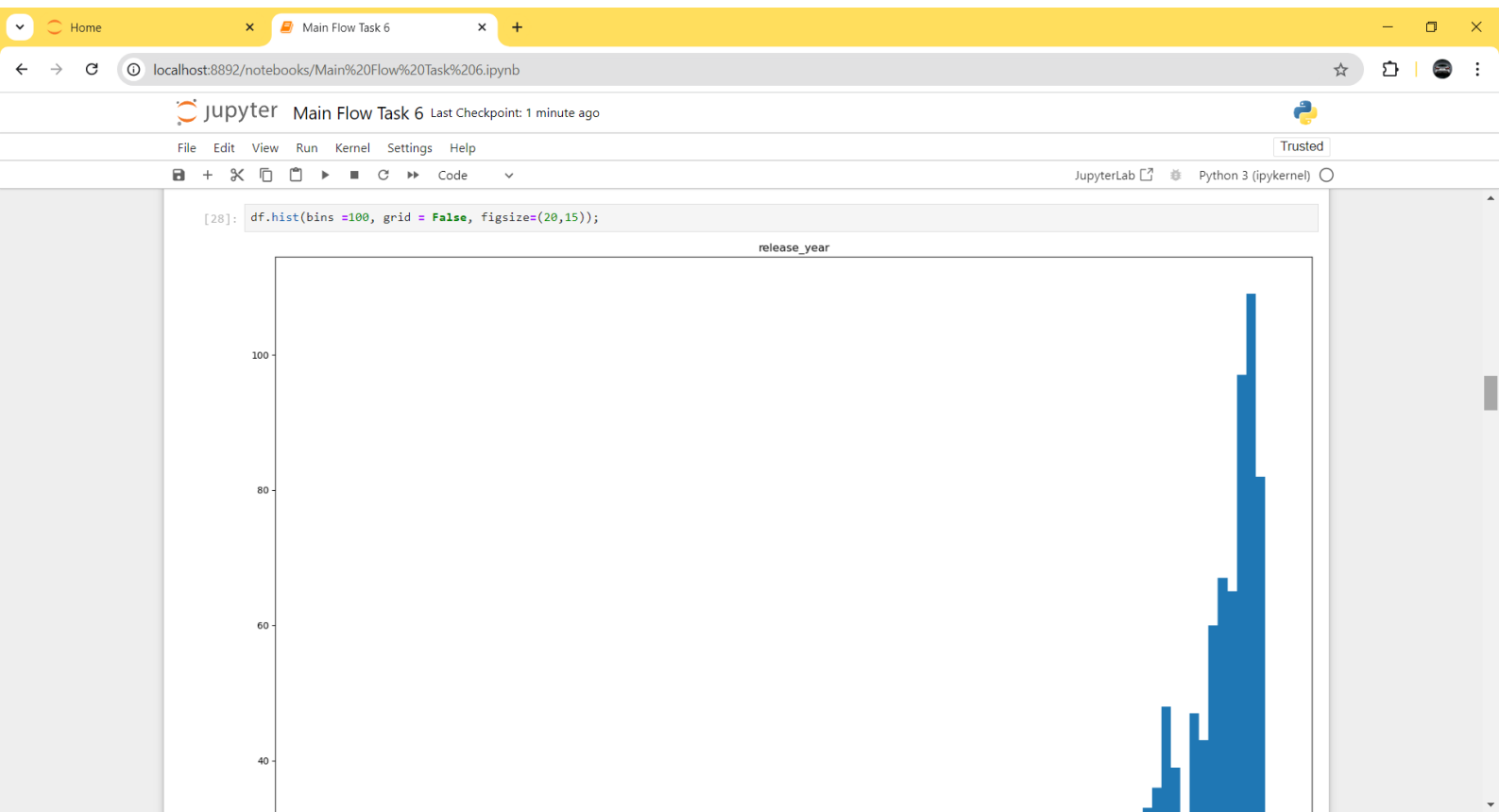
JupyterLabPython 3 (ipykernel)

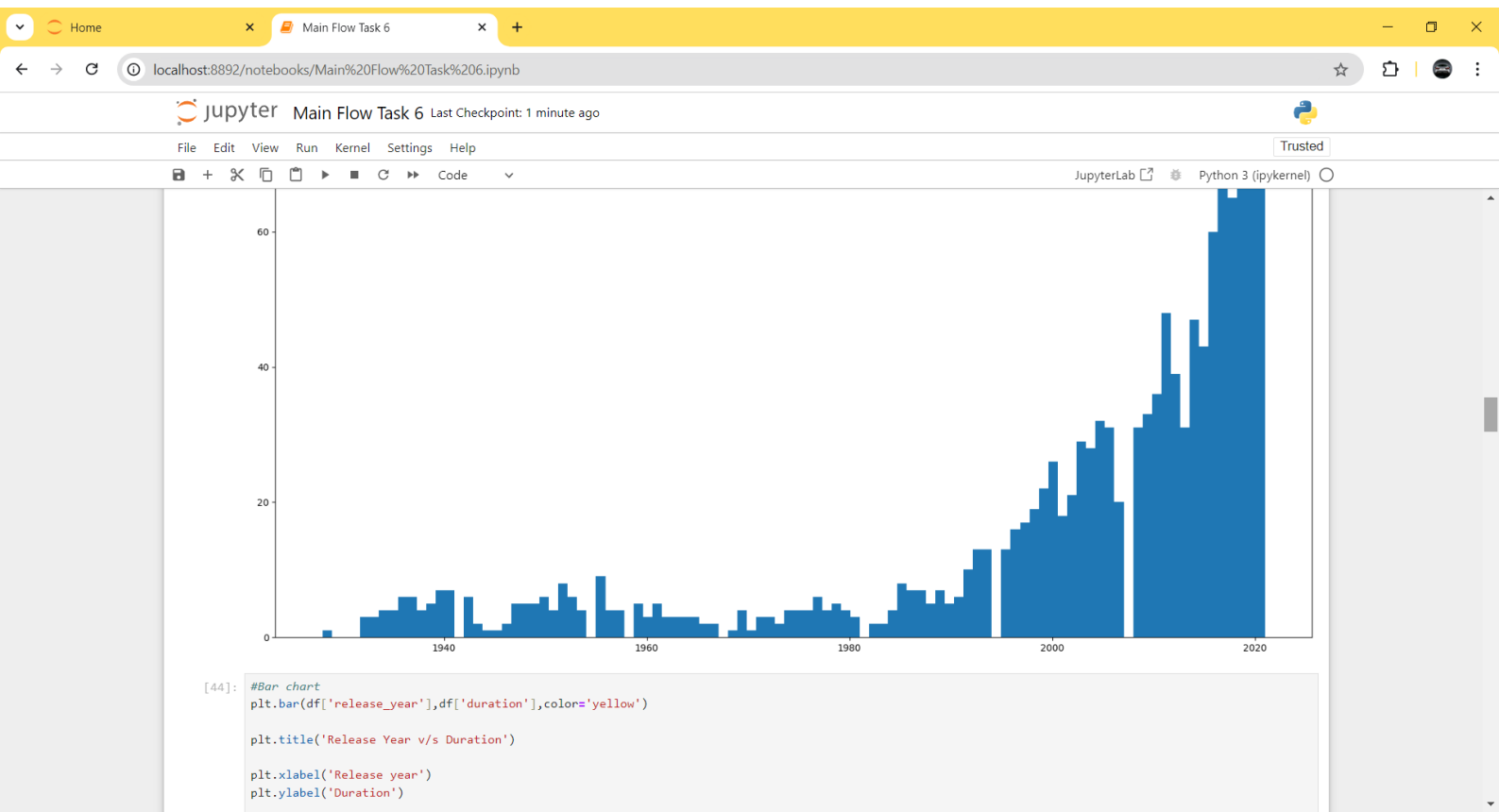
[36]:

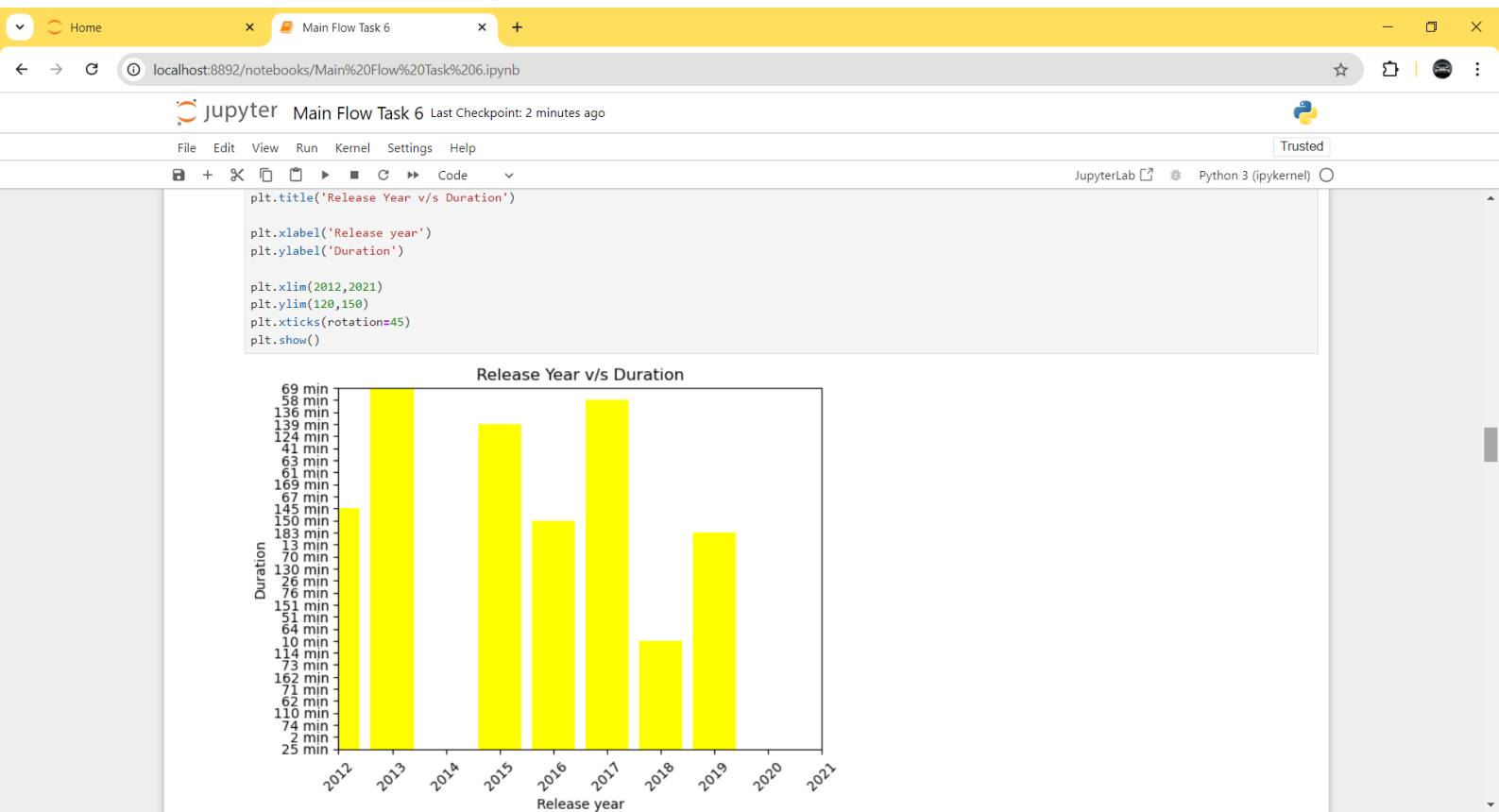
replace the null values with a specified value
data = df.fillna(value=0)
data

[36]:

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
0	s1	Movie	A Spark Story	Jason Stermann, Leanne Dare	Apton Corbin, Louis Gonzales	0	September 24, 2021	2021	TV-PG	88 min	Documentary	Two Pixar filmmakers strive to bring their uni...
1	s2	Movie	Spooky Buddies	Robert Vince	Tucker Albrizzi, Diedrich Bader, Ameko Eks Mas...	United States, Canada	September 24, 2021	2011	G	93 min	Comedy, Fantasy, Kids	The puppies go on a spooky adventure through a...
2	s3	Movie	The Fault in Our Stars	Josh Boone	Shailene Woodley, Ansel Elgort, Laura Dern, Sa...	United States	September 24, 2021	2014	PG-13	127 min	Coming of Age, Drama, Romance	Hazel and Gus share a love that sweeps them on...
3	s4	TV Show	Dog: Impossible	0	Matt Beisner	United States	September 22, 2021	2019	TV-PG	2 Seasons	Animals & Nature, Docuseries, Family	Matt Beisner uses unique approaches to modify...
4	s5	TV Show	Spidey And His Amazing Friends	0	Benjamin Valic, Lily Sanfelippo, Jakari Fraser...	United States	September 22, 2021	2021	TV-Y	1 Season	Action-Adventure, Animation, Kids	Spidey teams up with pals to become The Spidey...
...
1363	s1364	Movie	The Sword in the Stone	Wolfgang Reitherman	Sebastian Cabot, Karl Swenson, Rickie Sorensen...	United States	October 1, 2019	1963	G	80 min	Action-Adventure, Animation, Comedy	Merlin trains a young orphan who's destined to...
			Those		Brian Keith, Vera	United	October 1				Animals & Nature	A strong-willed







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JupyterLabPython 3 (ipykernel)

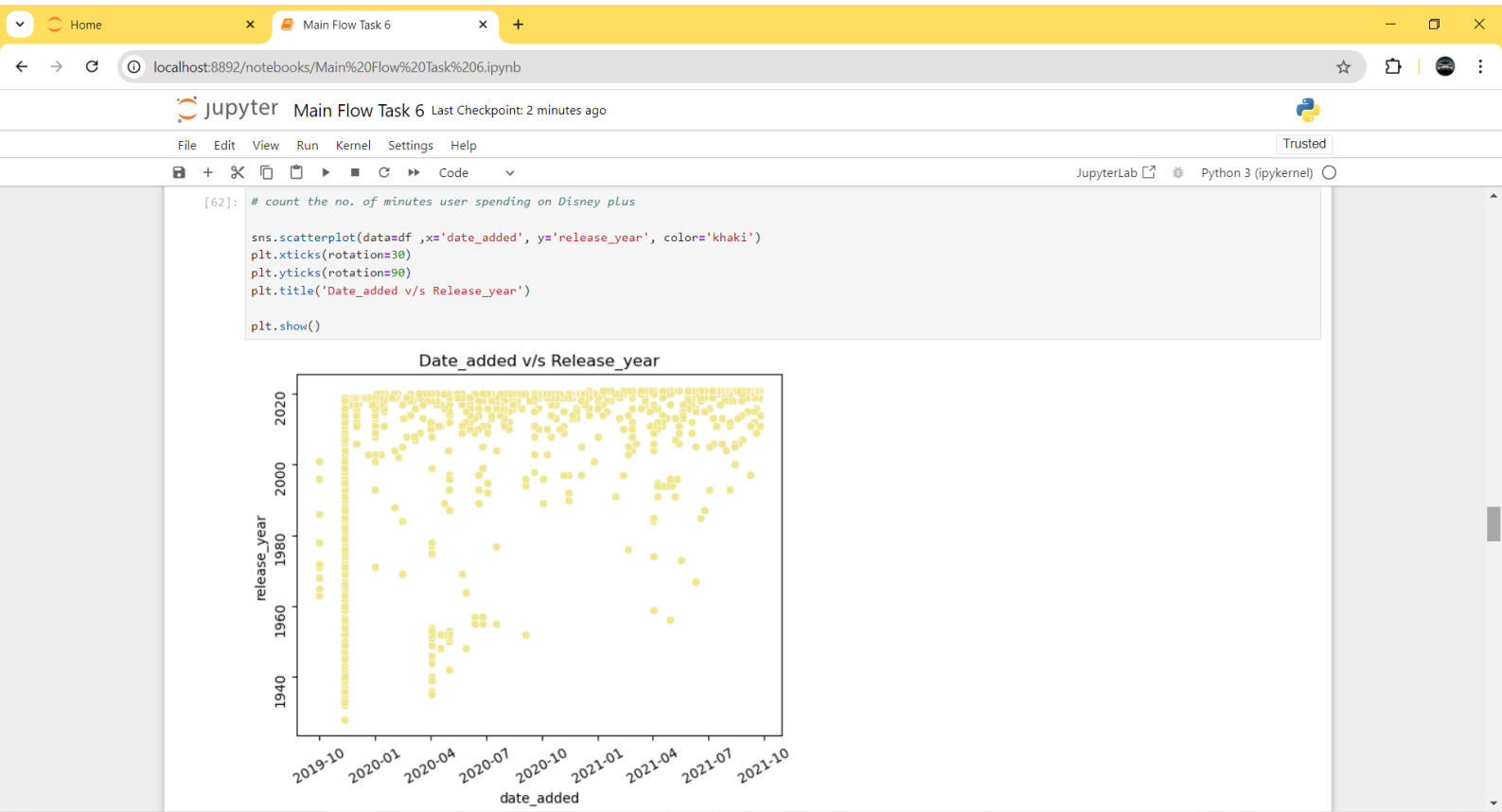
```
[46]: columns_to_remove = ['cast','director','description']
df = df.drop(columns=columns_to_remove)
df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1368 entries, 0 to 1367
Data columns (total 9 columns):
#   Column          Non-Null Count  Dtype  
---  -
0   show_id         1368 non-null  object  
1   type            1368 non-null  object  
2   title           1368 non-null  object  
3   country         1193 non-null  object  
4   date_added      1365 non-null  object  
5   release_year    1368 non-null  int64   
6   rating          1366 non-null  object  
7   duration        1368 non-null  object  
8   listed_in       1368 non-null  object  
dtypes: int64(1), object(8)
memory usage: 96.3+ KB

[52]: df['date_added'] = pd.to_datetime(df['date_added'])
df.head(10)

[52]:
```

	show_id	type	title	country	date_added	release_year	rating	duration	listed_in
0	s1	Movie	A Spark Story	NaN	2021-09-24	2021	TV-PG	88 min	Documentary
1	s2	Movie	Spooky Buddies	United States, Canada	2021-09-24	2011	G	93 min	Comedy, Fantasy, Kids
2	s3	Movie	The Fault in Our Stars	United States	2021-09-24	2014	PG-13	127 min	Coming of Age, Drama, Romance
3	s4	TV Show	Dog: Impossible	United States	2021-09-22	2019	TV-PG	2 Seasons	Animals & Nature, Docuseries, Family
4	s5	TV	SpongeBob SquarePants: The Movie	United States	2021-09-22	2021	TV-Y	1 Season	Action, Adventure, Animation, Kids



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JupyterLab Python 3 (ipykernel)

```
[86]: question = ["1. What types of programs are available on Disney+ and how many are there? ",
                "2. What are the most common ratings for Disney+ program? ",
                "3. What is the distribution of the release years for Disney+ program? ",
                "4. How was the no.of titles released in each year changed over time? ",
                "5. What is the trend in content addition over time? " ]
question

[86]: ['1. What types of programs are available on Disney+ and how many are there? ',
      '2. What are the most common ratings for Disney+ program? ',
      '3. What is the distribution of the release years for Disney+ program? ',
      '4. How was the no.of titles released in each year changed over time? ',
      '5. What is the trend in content addition over time? ']
```

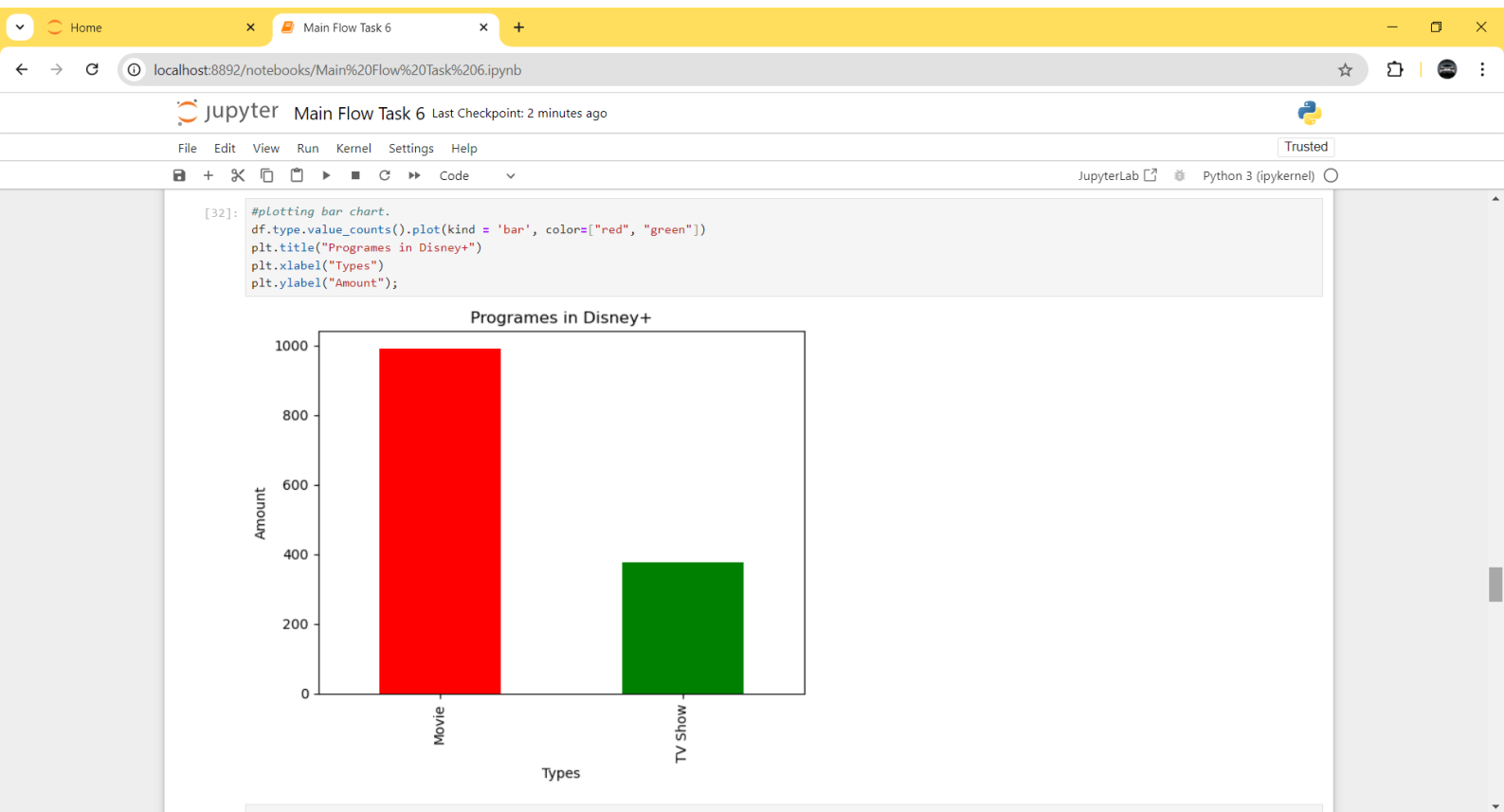
```
[30]: # ANSWERS
#1.What types of programs are available on Disney+ and how many are there?

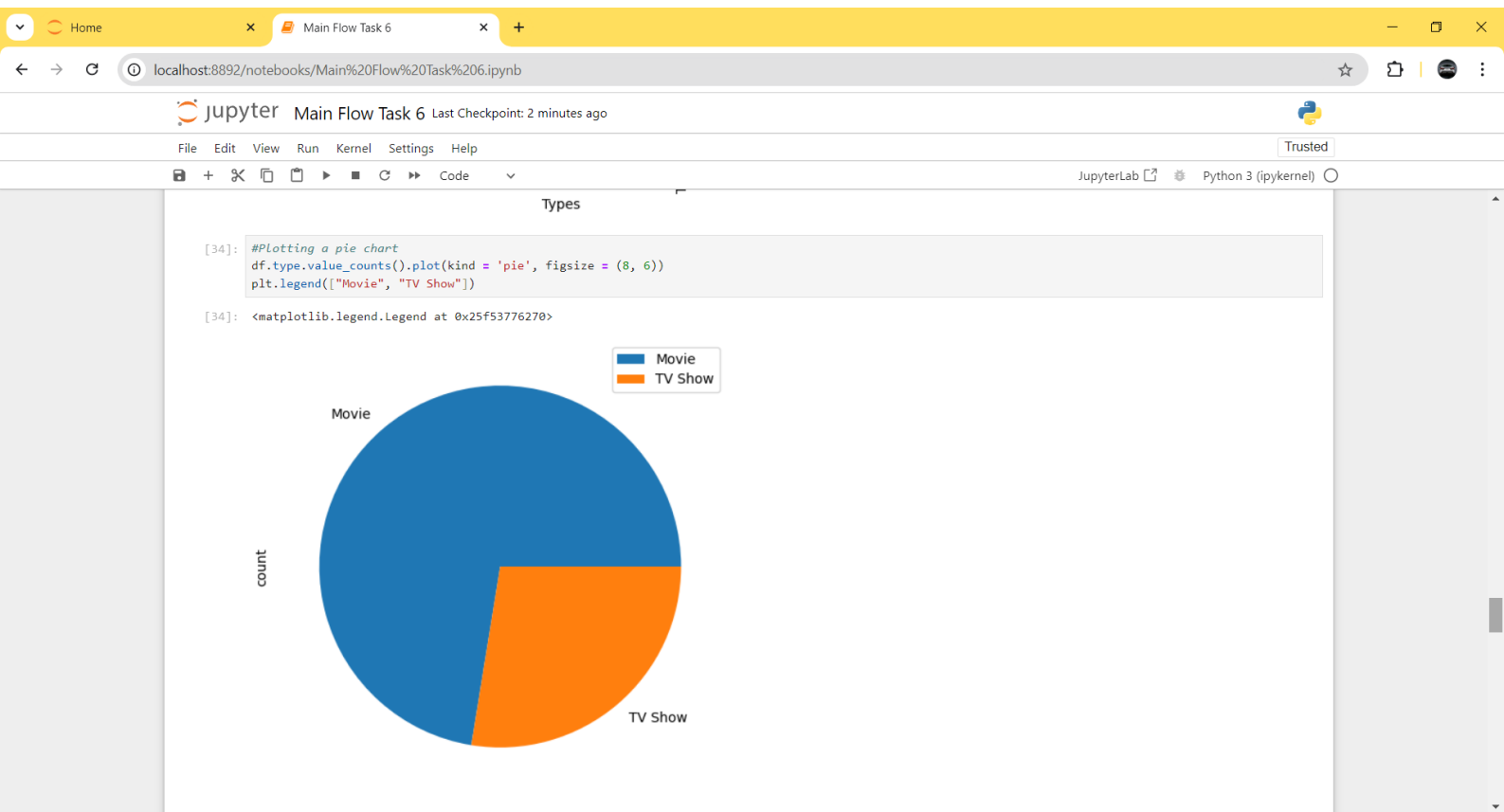
df.type.value_counts()

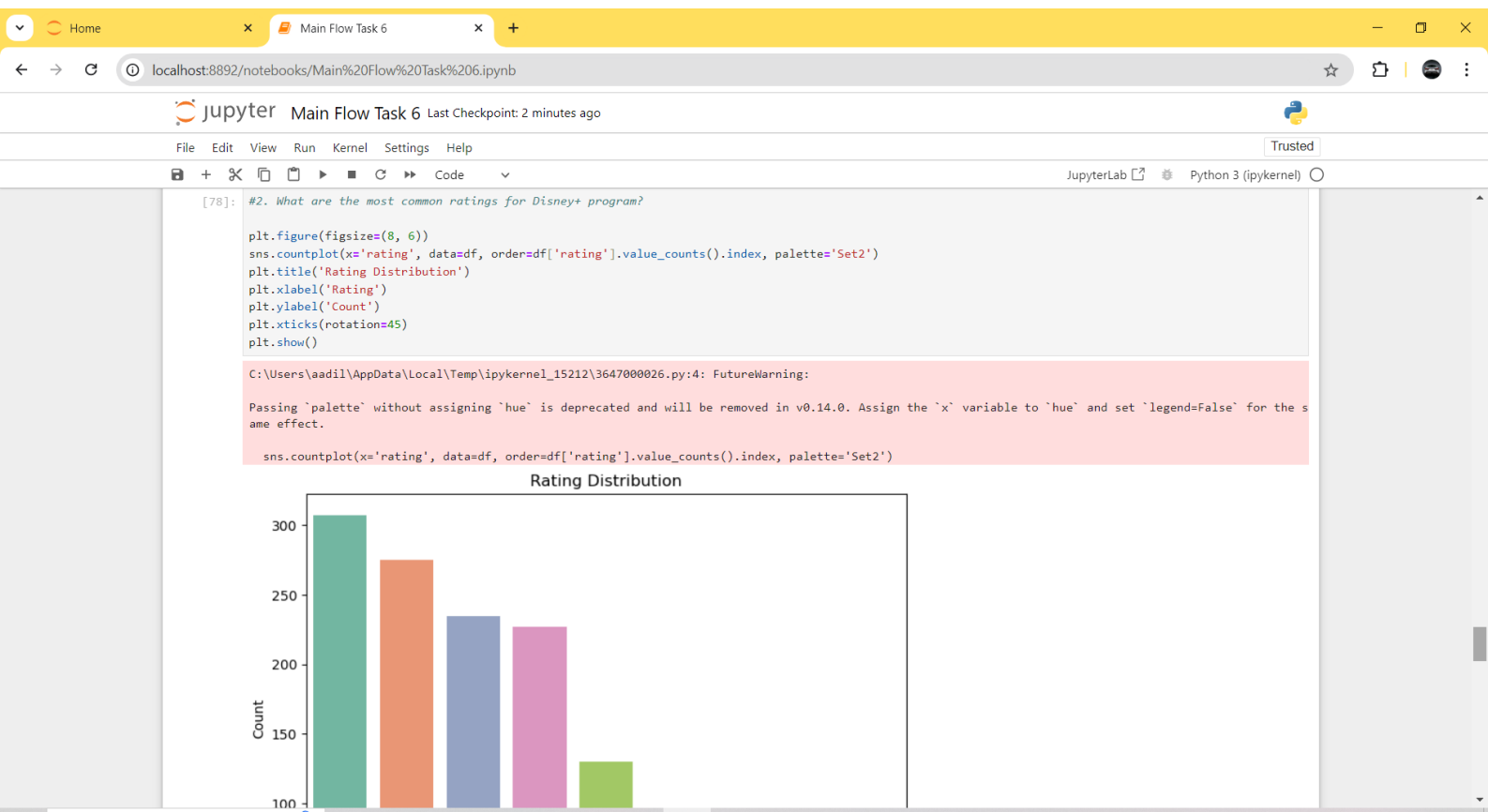
[30]: type
Movie      991
TV Show    377
Name: count, dtype: int64

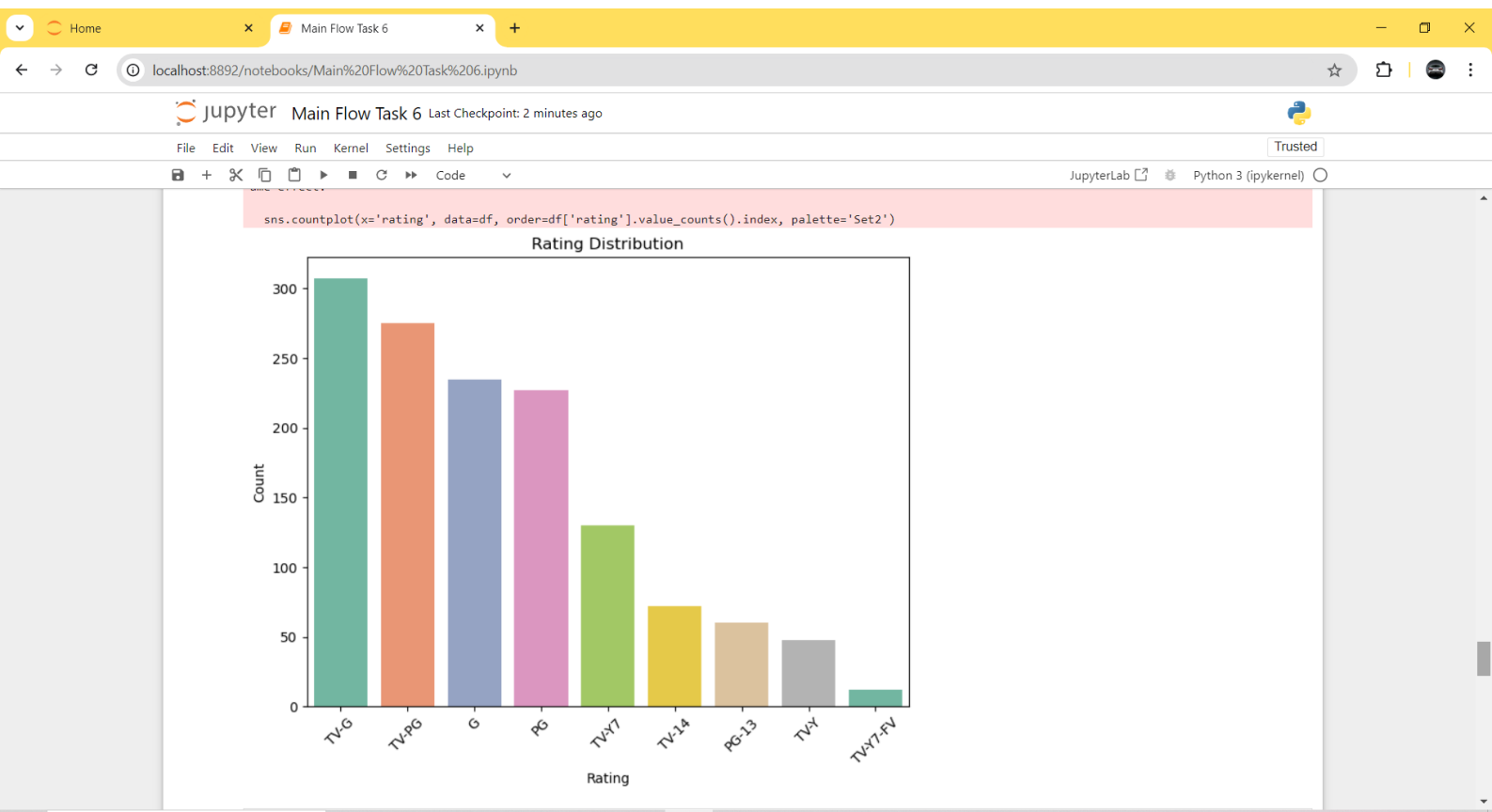
[32]: #plotting bar chart.
df.type.value_counts().plot(kind = 'bar', color=["red", "green"])
plt.title("Programes in Disney+")
plt.xlabel("Types")
plt.ylabel("Amount");
```

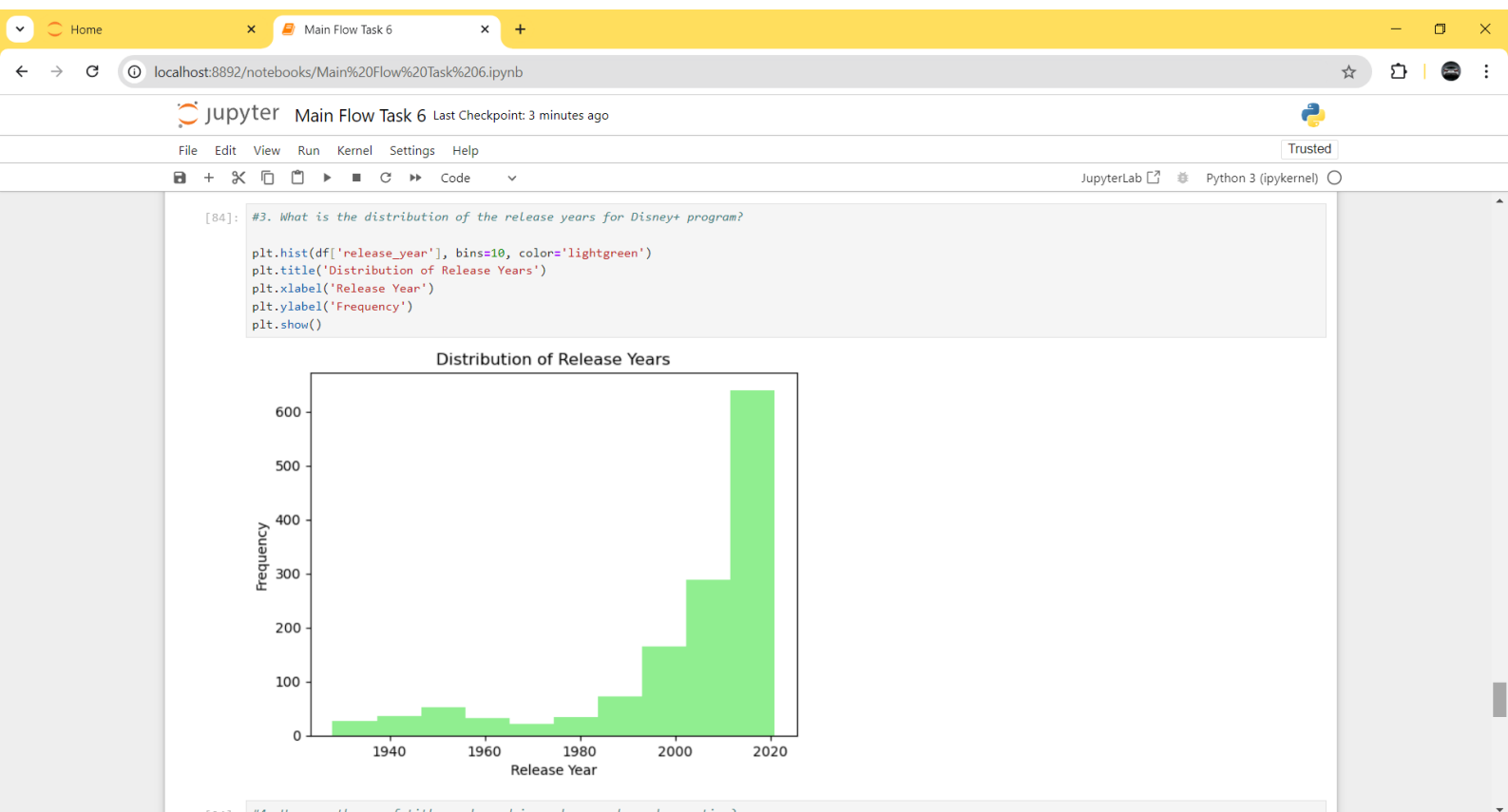
Programes in Disney+











[84]: #4. How was the no. of titles released in each year changed over time?

