Extracting comments from YouTube for a specified account using Python

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Aim:

The aim of this code is to extract comments from YouTube videos associated with a specified YouTube channel using the YouTube Data API v3 and Python. The code focuses on retrieving the video IDs from the channel and then extracting comments for each video.
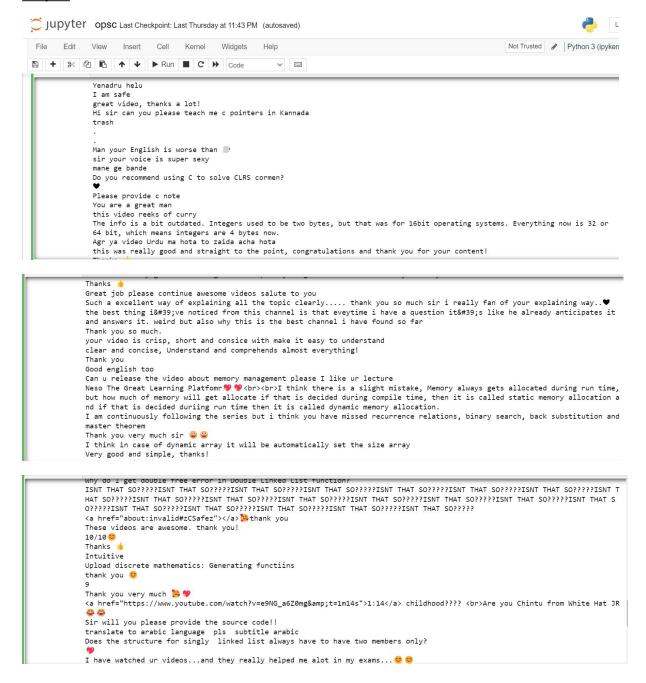
Algorithm:

- Set up the YouTube API using the googleapiclient library and provide the API key.
- Specify the target YouTube channel ID.
- Use the search() method to obtain a list of videos associated with the specified channel.
- Extract the video IDs from the search results.
- Iterate through each video ID and use the commentThreads().list() method to retrieve comments associated with the video.
- Extract the comments from the API response and print them.

Code: https://github.com/Byte-Sage/Youtube_Api

```python
from googleapiclient.discovery import build

api_key = 'AIzaSyA20G1c9UVQJmmlm_QASrpDI_lmqpCuE-8'
youtube = build('youtube', 'v3', developerKey=api_key)
#api_service_name = "youtube"
#api_version = "v3"
channel_id = 'UCQYMhOMi_Cdj1CEAU-fv80A'#NESO-ACADEMY CHANNEL ID

# Get the video list from the channel
search_response = youtube.search().list(
    part='id',
    channelId=channel_id,
    type='video',
).execute()

# Extract video IDs from the search results
video_ids = [item['id']['videoId'] for item in search_response['items']]

# Get comments for each video
for vid in video_ids:
    comments_response = youtube.commentThreads().list(
        part='snippet',
        videoId=vid,
    ).execute()

    # Extract and print comments
    for item in comments_response['items']:
        comment = item['snippet']['topLevelComment']['snippet']['textDisplay']
        print(comment)
```

Output:

```
Yenadru helu
I am safe
great video, thanks a lot!
Hi sir can you please teach me c pointers in Kannada
trash
.
.
Man your English is worse than
sir your voice is super sexy
mane ge bande
Do you recommend using C to solve CLRS cormen?
♥
Please provide c note
You are a great man
this video reeks of curry
The info is a bit outdated. Integers used to be two bytes, but that was for 16bit operating systems. Everything now is 32 or
64 bit, which means integers are 4 bytes now.
Agr ya video Urdu ma hota to zaida acha hota
this was really good and straight to the point, congratulations and thank you for your content!
```

```
Thanks 🙏
Great job please continue awesome videos salute to you
Such a excellent way of explaining all the topic clearly..... thank you so much sir i really fan of your explaining way..♥
the best thing i&#39;ve noticed from this channel is that eveytime i have a question it&#39;s like he already anticipates it
and answers it. weird but also why this is the best channel i have found so far
Thank you so much.
your video is crisp, short and consice with make it easy to understand
clear and concise, Understand and comprehends almost everything!
Thank you
Good english too
Can u release the video about memory management please I like ur lecture
Neso The Great Learning Platfomr💗 💗<br><br>I think there is a slight mistake, Memory always gets allocated during run time,
but how much of memory will get allocate if that is decided during compile time, then it is called static memory allocation a
nd if that is decided duriing run time then it is called dynamic memory allocation.
I am continuously following the series but i think you have missed recurrence relations, binary search, back substitution and
master theorem
Thank you very much sir 😊 😊
I think in case of dynamic array it will be automatically set the size array
Very good and simple, thanks!
```

```
Why do i get double free error in Double Linked List function?
ISNT THAT SO?????ISNT THAT SO?????ISNT THAT SO?????ISNT THAT SO?????ISNT THAT SO?????ISNT THAT SO?????ISNT THAT SO?????ISNT T
HAT SO?????ISNT THAT SO?????ISNT THAT SO?????ISNT THAT SO?????ISNT THAT SO?????ISNT THAT SO?????ISNT THAT SO?????ISNT THAT S
O?????ISNT THAT SO?????ISNT THAT SO?????ISNT THAT SO?????ISNT THAT SO?????
<a href="about:invalid#zCSafez"></a>🐱thank you
These videos are awesome. thank you!
10/10😊
Thanks 🙏
Intuitive
Upload discrete mathematics: Generating functiins
thank you 😊
9
Thank you very much 🐱 💗
<a href="https://www.youtube.com/watch?v=e9NG_a6Z0mg&amp;t=1m14s">1:14</a> childhood???? <br>Are you Chintu from White Hat JR
😂😂
Sir will you please provide the source code!!
translate to arabic language  pls  subtitle arabic
Does the structure for singly  linked list always have to have two members only?
💗
I have watched ur videos...and they really helped me alot in my exams...😊 😊
```

Result/Conclusion:

The code successfully extracts comments from YouTube videos associated with the specified channel. It retrieves video IDs, then for each video, it obtains and prints the comments. Keep in mind that you should replace 'Your_API_Key' and 'Target_Channel_ID' with your actual YouTube Data API key and
the target channel ID, respectively.

Additionally, the code assumes that the YouTube API key used has the necessary permissions to access the data. Ensure that you have enabled the YouTube Data API v3 for your project in the Google Cloud Console and that the API key is valid.