



EXPERIMENT NO – 02

Program Code

```
import requests
video_id = "iX-U9HLRnuk"
api_key = "AIzaSyDL2_rH_2JrGPYAN71ryuO9fG3WxXyT04"
# Retrieve video information
video_info_url =
f"https://www.googleapis.com/youtube/v3/videos?part=snippet&id={video\_id}&key={api\_key}"
video_info_response = requests.get(video_info_url)
video_info_data = video_info_response.json()
video_info_data
# Retrieve video comments
comments_url =
f"https://www.googleapis.com/youtube/v3/commentThreads?part=snippet&videoId={video\_id}&key={api\_key}"
comments_response = requests.get(comments_url)
comments_data = comments_response.json()
comments_data
# Extract the comments
comments = [item["snippet"]["topLevelComment"]["snippet"]["textOriginal"] for item in
comments_data["items"]]
print(comments)
from textblob import TextBlob
def get_comment_sentiment(comment):
    analysis = TextBlob(comment)
    if analysis.sentiment.polarity > 0:
        return "Positive"
    elif analysis.sentiment.polarity == 0:
        return "neutral"
    else:
        return "negative"
comment_list = [] sentiment_list = []
for comment in comments:
    sentiment = get_comment_sentiment(comment)
    comment_list.append(comment)
    sentiment_list.append(sentiment)
    print(f"{comment} : {sentiment}")
import pandas as pd
sentiment_df = pd.DataFrame({"Comments": comment_list, "Sentiment": sentiment_list})
sentiment_df.head() sentiment_df.to_csv("YouTube_Comments_Sentiment.csv")
```



OUTPUT

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APIs and services API/Service details [DISABLE API](#)

Enabled APIs and services

- Library
- Credentials
- OAuth consent screen
- Page usage agreements

YouTube Data API v3

The YouTube Data API v3 is an API that provides access to YouTube data, such as videos, playlists, and channels.

By Google

Service name	Type	Status	Documentation	Explore	Support
youtube.googleapis.com	Public API	Enabled	LEARN MORE	TRY IN API EXPLORER	MAINTENANCE AND SUPP

METRICS QUOTAS AND SYSTEM LIMITS CREDENTIALS

Select graphs 4 Graphs 1 hour 6 hours 12 hours 1 day 2 days 4 days 7 days 14 days **30 days**

Filters: Versions v1 and v3 Credentials API key 1, Unspecified, An... Methods 89 options selected

Traffic by response code

30°C Smoke

APIs and services API/Service details [DISABLE API](#)

Enabled APIs and services

- Library
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YouTube Data API v3

Select graphs 4 Graphs 1 hour **6 hours** 12 hours 1 day 2 days 4 days 7 days 14 days 30 days

Filters: Versions v1 and v3 Credentials API key 1, Unspecified, An... Methods 89 options selected

Traffic by response code

UTC+5:30 18:30 19:00 19:30 20:00 20:30 21:00 21:30 22:00 22:30 23:00 23:30

200: 0.0247/s

Errors by API method

30°C Smoke



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Music
1 songs

```
sentiment_df.to_csv('YouTube_Comments_Sentiment.csv', index=False)
print(sentiment_df.head()) # Show first few rows
sentiment_df.to_csv("YouTube_Comments_Sentiment.csv", index=False)
```

Alsooooo.. here are the bloopers! incase you're in free time and want to know more about behind the scenes!! The footages are extremely raw..
Just the bloopers! : <https://youtu.be/0ipicII6R0A> : Negative
2k21 ka baana na.....kyu ki sponsorship bhi mast hai.....and win prizes u won't belive

1000rs : Positive
Anybody upload beauty of 2008 : Neutral
konta software use kartoh edit karny sathi.!!!? : Neutral
ek no : Neutral
Awesome Video bruh
.. : Positive
zhakas.. bhai.. kadak video... editing : Neutral
plz make a editing tutorial : Neutral
AWESOME STABILATION : Positive
This made my day bro : Nice piece of artwork awesome editing skills !! All the best : Positive
Rushikesh Dope Editing Bro : Neutral
Amazing Vlog Brother : Positive
Awesome editine : Positive

8s completed at 11:39 PM

23:51
10-03-2025



AWESOME STABLIATION 🙌🙌 : Positive
This made my day bro 🙌🙌 Nice piece of artwork awesome editing skills !! 🙌 All the best : Positive
Rushikesh Dope Editing Bro : Neutral
Amazing Vlog Brother ❤️❤️ : Positive
Awesome editing : Positive
full khatarnak... editing..!!! : Positive
luma fade 🙌🙌 : Neutral
Video Editing is Osum kill it 🙌🙌🙌🙌🙌🙌 : Neutral
best dj in the market....it was wowsome : Positive
Ek no. bhava.....!!! nice edits.. : Positive
Amazing bro ❤️ : Positive
Wow! That editing plus music! Awesomeness! Akash ne mala nahi bolavla :(: Negative

	Comments	Sentiment
0	Alsooooo.. here are the bloopers! incase you'r...	Negative
1	2k21 ka baana na.....kyu ki sponsorship bh...	Positive
2	Anybody upload beauty of 2008	Neutral
3	konta software use kartoh edit karny sathi...!!?	Neutral
4	ek no	Neutral