```
pip install pytube3 # Install the pytube3 library to enable downloading videos from YouTube
```

```
Requirement already satisfied: pytube3 in /usr/local/lib/python3.10/dist-packages (9.6.4)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.10/dist-packages (from pytube3) (4.12.2)
```

```
pip install --upgrade.pytube  # Upgrade the pytube library to the latest version
```

```
Usage:
  pip3 install [options] <requirement specifier> [package-index-options] ...
  pip3 install [options] -r <requirements file> [package-index-options] ...
  pip3 install [options] [-e] <vcs project url> ...
  pip3 install [options] [-e] <local project path> ...
  pip3 install [options] <archive url/path> ...

no such option: --upgrade.pytube
```

```
from pytube import YouTube  # Import the YouTube class from the pytube library to interact with YouTube videos
```

```
pip install yt-dlp  # Install the yt-dlp library, a tool for downloading videos from YouTube and other websites
```

```
Requirement already satisfied: yt-dlp in /usr/local/lib/python3.10/dist-packages (2024.8.6)
Requirement already satisfied: brotli in /usr/local/lib/python3.10/dist-packages (from yt-dlp) (1.1.0)
Requirement already satisfied: certifi in /usr/local/lib/python3.10/dist-packages (from yt-dlp) (2024.7.4)
Requirement already satisfied: mutagen in /usr/local/lib/python3.10/dist-packages (from yt-dlp) (1.47.0)
Requirement already satisfied: pycryptodomex in /usr/local/lib/python3.10/dist-packages (from yt-dlp) (3.20.0)
Requirement already satisfied: requests<3,>=2.32.2 in /usr/local/lib/python3.10/dist-packages (from yt-dlp) (2.32.3)
Requirement already satisfied: urllib3<3,>=1.26.17 in /usr/local/lib/python3.10/dist-packages (from yt-dlp) (2.0.7)
Requirement already satisfied: websockets>=12.0 in /usr/local/lib/python3.10/dist-packages (from yt-dlp) (13.0.1)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.32.2->yt-dlp) (3
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.32.2->yt-dlp) (3.8)
```

```
link = input("Enter the video link: ")   # Prompt the user to enter a YouTube video URL
yt = YouTube(link)      # Create a YouTube object using the provided URL
```

```
Enter the video link: https://www.youtube.com/live/cnA-5rY3DXQ?si=RYz8uaHzB-8ERmk-
```

```
# Print the title of the YouTube video
print("Title:",yt.title)
# Print the views of the YouTube video
print("Number of views:",yt.views)
# Print the length of the YouTube video
print("Length of video:",yt.length)
# Print the description of the YouTube video
print("Description:",yt.description)
# Print the rating of the YouTube video
print("Rating of video:",yt.rating)
```

```
Title: Exploring Generative AI through Computer Vision | Session-2
Number of views: 2279
Length of video: 4903
Description: None
Rating of video: None
```

```
# Import the YoutubeDL class from the yt_dlp library
from yt_dlp import YoutubeDL

# Ask the user if they want to download the video and convert the response to lowercase
download_option = input("Do you want to download this video? (yes/no): ").lower()

# Check if the user's choice is 'yes' to proceed with the download
if download_option == "yes":
    url = 'https://www.youtube.com/live/cnA-5rY3DXQ?si=RYz8uaHzB-8ERmk-';      # URL of the YouTube video to be downloaded
    ydl_opts = {'format': 'best'}     # Define download options: 'best' format will download the best quality video available
    with YoutubeDL(ydl_opts) as ydl:     # Create a YoutubeDL object with the specified options
        print("Downloading...")    #Prints the message "Downloading..." to the console to inform the user that the download process has start
        ydl.download([url]) #calls the download method from the ydl object passing a list containing the url to download the content from the
        print("Download completed.")  # Prints the message "Download completed." to the console to inform the user that the download process
else:
    print("Download aborted.")  # Prints the message "Download aborted." to the console to inform the user that the download process has been
```

```
Do you want to download this video? (yes/no): yes
Downloading...
[youtube] Extracting URL: https://www.youtube.com/live/cnA-5rY3DXQ?si=RYz8uaHzB-8ERmk-
[youtube] cnA-5rY3DXQ: Downloading webpage
[youtube] cnA-5rY3DXQ: Downloading ios player API JSON
[youtube] cnA-5rY3DXQ: Downloading web creator player API JSON
[youtube] cnA-5rY3DXQ: Downloading player 3abab6ef
[youtube] cnA-5rY3DXQ: Downloading m3u8 information
[info] cnA-5rY3DXQ: Downloading 1 format(s): 18
[download] Destination: Exploring Generative AI through Computer Vision | Session-2 [cnA-5rY3DXQ].mp4
[download] 100% of  121.08MiB in 00:00:25 at 4.79MiB/s
Download completed.
```

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