



VIT®

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

In [1]:

```
print("-----PYTHON MINI PROJECT-----")
print("-----YOUTUBE VIDEO DOWNLOADER-----")
```

-----PYTHON MINI PROJECT-----

-----YOUTUBE VIDEO DOWNLOADER-----

In [2]:

```
print("-----Name: Devansh Mittal-----")
print("-----Registration No: 21BIT0727-----")
print("*****")
```

-----Name: Devansh Mittal-----

-----Registration No: 21BIT0727-----

In [3]:

```
%autosave 1
```

Autosaving every 1 seconds

In [4]:

```
!pip install pytube
```

Requirement already satisfied: pytube in ./opt/anaconda3/lib/python3.8/site-packages (11.0.1)

In [5]:

```
# YouTube Downloader is a application to use video downloader.
# This code will allow users to print the title, thumbnail.
# Also download any video of their choice.
```

In [7]:

```

from pytube import YouTube # Using module.

link = input("Enter the link of the video you want to download: ")
ytube_1 = YouTube(link)

import user_defined_module # Using user defined module.
print("-" * 20, ytube_1.title, "-" * 20)
print()

def youtube_function(): # Using function.
    ytube_1 = YouTube(link)
    print("\nClick on the link below to view the thumbnail of:\n\n",
          ytube_1.title)
    print()
    print(ytube_1.thumbnail_url)

youtube_function()
print()

videos = ytube_1.streams.all()      # Downloading video.
vid = list(enumerate(videos))      # Using list.
for i in vid:                      # Using for loop.
    print()
    print(i)

strm = int(input("\nEnter the index number of video quality: "))
print()
videos[strm].download()           # Using tuple.
# Using tuple.
tup = ('*****The video of', ytube_1.title,
       'is successfully downloaded.*****');

print()
print(tup)

```

```

/Users/devanshmittal/opt/anaconda3/lib/python3.8/site-packages/ipykernel/ip
kernel.py:287: DeprecationWarning: `should_run_async` will not call `transf
orm_cell` automatically in the future. Please pass the result to `transform
ed_cell` argument and any exception that happen during the transform in `pre
processing_exc_tuple` in IPython 7.17 and above.
    and should_run_async(code)
Enter the link of the video you want to download: https://youtu.be/ajBpprey
1pI
----- We'll miss you AB de Villiers | RCB Bold Diaries -----
-----
```

Clink on the link below to view the thumbnail of:

We'll miss you AB de Villiers | RCB Bold Diaries

<https://i.ytimg.com/vi/ajBpprey1pI/sddefault.jpg>

```
<ipython-input-7-a2b25288dd6c>:21: DeprecationWarning: Call to deprecated function all (This object can be treated as a list, all() is useless).
  videos = ytube_1.streams.all()  # Downloading video.
(0, <Stream: itag="17" mime_type="video/3gpp" res="144p" fps="6fps" vcodec="mp4v.20.3" acodec="mp4a.40.2" progressive="True" type="video">)
(1, <Stream: itag="18" mime_type="video/mp4" res="360p" fps="25fps" vcodec="avc1.42001E" acodec="mp4a.40.2" progressive="True" type="video">)
(2, <Stream: itag="22" mime_type="video/mp4" res="720p" fps="25fps" vcodec="avc1.64001F" acodec="mp4a.40.2" progressive="True" type="video">)
(3, <Stream: itag="137" mime_type="video/mp4" res="1080p" fps="25fps" vcodec="avc1.640028" progressive="False" type="video">)
(4, <Stream: itag="248" mime_type="video/webm" res="1080p" fps="25fps" vcodec="vp9" progressive="False" type="video">)
(5, <Stream: itag="399" mime_type="video/mp4" res="1080p" fps="25fps" vcodec="av01.0.08M.08" progressive="False" type="video">)
(6, <Stream: itag="136" mime_type="video/mp4" res="720p" fps="25fps" vcodec="avc1.4d401f" progressive="False" type="video">)
(7, <Stream: itag="247" mime_type="video/webm" res="720p" fps="25fps" vcodec="vp9" progressive="False" type="video">)
(8, <Stream: itag="398" mime_type="video/mp4" res="720p" fps="25fps" vcodec="av01.0.05M.08" progressive="False" type="video">)
(9, <Stream: itag="135" mime_type="video/mp4" res="480p" fps="25fps" vcodec="avc1.4d401e" progressive="False" type="video">)
(10, <Stream: itag="244" mime_type="video/webm" res="480p" fps="25fps" vcodec="vp9" progressive="False" type="video">)
(11, <Stream: itag="397" mime_type="video/mp4" res="480p" fps="25fps" vcodec="av01.0.04M.08" progressive="False" type="video">)
(12, <Stream: itag="134" mime_type="video/mp4" res="360p" fps="25fps" vcodec="avc1.4d401e" progressive="False" type="video">)
(13, <Stream: itag="243" mime_type="video/webm" res="360p" fps="25fps" vcodec="vp9" progressive="False" type="video">)
(14, <Stream: itag="396" mime_type="video/mp4" res="360p" fps="25fps" vcodec="av01.0.01M.08" progressive="False" type="video">)
(15, <Stream: itag="133" mime_type="video/mp4" res="240p" fps="25fps" vcodec="avc1.4d4015" progressive="False" type="video">)
(16, <Stream: itag="242" mime_type="video/webm" res="240p" fps="25fps" vcodec="vp9" progressive="False" type="video">)
(17, <Stream: itag="395" mime_type="video/mp4" res="240p" fps="25fps" vcodec="av01.0.00M.08" progressive="False" type="video">)
(18, <Stream: itag="160" mime_type="video/mp4" res="144p" fps="25fps" vcodec="avc1.4d400c" progressive="False" type="video">)
```

```
(19, <Stream: itag="278" mime_type="video/webm" res="144p" fps="25fps" vcod  
ec="vp9" progressive="False" type="video">)  
  
(20, <Stream: itag="394" mime_type="video/mp4" res="144p" fps="25fps" vcode  
c="av01.0.00M.08" progressive="False" type="video">)  
  
(21, <Stream: itag="139" mime_type="audio/mp4" abr="48kbps" acodec="mp4a.40  
.5" progressive="False" type="audio">)  
  
(22, <Stream: itag="140" mime_type="audio/mp4" abr="128kbps" acodec="mp4a.4  
0.2" progressive="False" type="audio">)  
  
(23, <Stream: itag="249" mime_type="audio/webm" abr="50kbps" acodec="opus"  
progressive="False" type="audio">)  
  
(24, <Stream: itag="250" mime_type="audio/webm" abr="70kbps" acodec="opus"  
progressive="False" type="audio">)  
  
(25, <Stream: itag="251" mime_type="audio/webm" abr="160kbps" acodec="opus"  
progressive="False" type="audio">)
```

Enter the index number of video quality in which you want to download: 5

```
('*****The video of', 'We\'ll miss you AB de Villiers | RCB  
Bold Diaries', 'is successfully downloaded.*****')
```

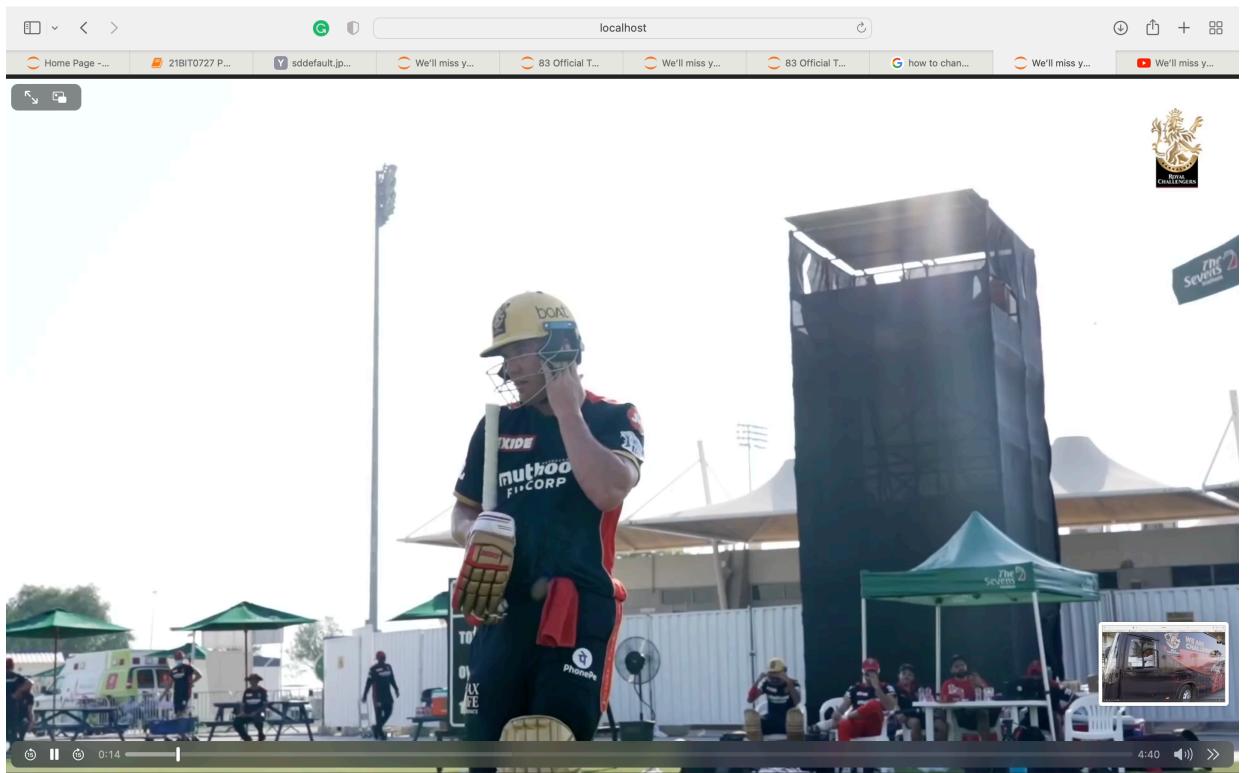
In []:

```
print("*****The thumbnail of the video is printed be
```



In []:

```
print("*****Screenshot of the downloaded video is also printed*****")
```



In [9]:

```
print("*****A snap of user defined module is shown below.*")
```

