

YouTube Video Downloader Python Program.

Hello everybody welcome back to this python project

In this python project, we write a python code that helps us to download any video from YouTube.

this is one of the basic python projects we need to do as beginner python programmers.

So, after this python project, you can write your own YouTube video downloader.

Ok, now I start this python project by opening PyCharm python IDE.

I use PyCharm. If you want to use another python IDE, you can use it.

Ok, now I start this python project by opening PyCharm and creating a new python file.

So

Now this is the PyCharm home page and I create a new file

For that

I click this at the top and select new then I click this python file.

And it asks me to give the name for this python project for that I give the name

YouTube Video Downloader

I give this name

You can give any name for your python project file

For me, I give this name

YouTube Video Downloader

And then,

when I hit enter, it creates a new blank python file.

Ok, now I import an important python module to this python project to create a YouTube video downloader program.

So, for this python project, I use

Pytube python module

This pytube python module helps us to create a video downloader program in python.

So, we need to use this pytube python module.

Ok, to use pytube python module

First you need to install it. Because pytube is not built-in python module. So, you need to install it.

To install this python module you can use this PyCharm python IDE.

So at the bottom of PyCharm python IDE there is a terminal section and when you click the terminal section, it opens your python file path like this.

And after that you need to write

Pip install pytube

And when you hit enter it starts to download and install it.

Ok, for me I already install it and I don't install this python module a gain.

So, **now I import this python module** to use in this python project.

For that, I write

```
from pytube import YouTube
```

I want to use the YouTube class from this pytube python module.

That is why I write this

```
from pytube import YouTube
```

Ok, after this, after I import this python module

Now I create a variable and save the download video link.

As we say before this python program is all about downloading a YouTube video

So, to download any video on YouTube we need to get the link of the video

For that, we need to write a code to ask the user to enter the downloaded video link and save it as a variable link.

Ok, in the python programming language to ask the user any prompt, we use input function.

So, for this video, I use input python function to ask the user to enter the downloaded video link,

For that

Link = input()

And inside this input function, I pass the command text

“video link:” inside a double quote.

Like this

```
link = input("Video Link: ")
```

ok, after this

the next point is to create an object and pass this link to download the video.

So, I give the name

Download_Video_link = YouTube(link)

You can give any name the object name,

I give this name Download_Video_link

And I use the YouTube Class to create the object and I pass the link variable inside this YouTube Class.

So, the code looks like this

```
Download_Video_link = YouTube(link)
```

Ok, now I finish creating the video download object and now I can check the video information by copying any video on youtube.

So, now I want to get the title of the YouTube video.

For that

I write

Title = Download_Video_Link.title

I use this download video link object and see the title parameter.

Like this

```
Title = Download_Video_link.title
```

Ok, now I run this program and see what is happening

For that, I run this

And

As you see this program asks me to enter the video link

So, now I will copy this YouTube video link

and paste in this video link

now I passed this link

then when I click enter nothing is shown

this program ends without showing the title of the video

so,

I need to write the print() function to print the title

For that, I write

Print() and I pass the Title variable

Like this

```
print(Title)
```

ok, now I will run this program again and see the results.

When I run this

It asks me to enter the YouTube video link. So I will copy this video link and past in this

And as you see this is the video link

And when I click enter

As you see this code works

It shows me the title of the video

So, this program works perfectly and it is good to go.

Ok, from this we check the video title

Now we can see other information about this YouTube video like the number of views, the length of the video, and the channel author of the video.

So,

To get the number of views

I create a variable

`Num_of_views = Download_Video_link.views`

I give the variable name

number of views

and from the download video link object, I want to access the views parameter.

Like this

```
Num_of_Views = Download_Video_link.views
```

After this, I want to use the print function to see the number of views for the video.

So, I write

`Print()` and I pass the variable `Num_of_views`

Like this

```
print(Num_of_views)
```

ok, now I will run this code and see it.

It asks me to give the youtube video link

So, I copy it and past this video link.

And then

As you see it works, it shows the video title and number of views perfectly.

Like this, this is the video link.

Then now we can also get the video length by using this python module.

So, I create the variable

```
Length_of_Video = Download_Video_link.length
```

Like the title, I use this Download video link object and I want to get the length parameter.

Like this

```
Length_of_Video = Download_Video_link.length
```

After this I want to see the views

For that I use print function like others

So,

Print()

And I pass this variable

```
print(Length_of_Video)
```

and now I will run this

and it asks for the video link

so, I passed this video link

and after that, as you see this at the 3rd, this is the video length with seconds.

Ok, another important piece of information you need to get from the video by using this python module is the author of the video.

So,

I create the variable

Author_of_video = Download_Video_link.author

Like this

```
Author_of_video = Download_Video_link.author
```

And to see the result

I write

`Print(Author_of_video)`

I pass the variable Author of the video

```
print(Author_of_video)
```

and when I run this

it asks for the video link

and when I copy this video link and past it.

It gives the author of this video

Ok, those are more information you can get access to the video by using this python module.

Now for more clarity of those results, I add some adjustments inside the print functions.

For this, the first result is the title of the video

So, I write

“Title: ” inside the double quote.

Like this

```
print("Title: ",Title)
```

like that for the next

number of views

```
rint("Number of Views: ",Num_of_views)
```

and the length of the video is in seconds

so

length of the video and I also add seconds at the end

like this

```
print("Length of the video: ",Length_of_Video, "Seconds")
```

and also the author of the video

author of video and pass the variable

```
print("Author of video: ",Author_of_video)
```

ok now it looks good

so, when I run this python program

it asks for the link

and I copy and paste the video link

then it shows everything we need to know about this YouTube video.

As you see it shows the

Video title

Number of views

Length of the video in seconds

And the author of the video

Like this

Now after we access that information about the video.

The next point is downloading this video with high resolution.

For that, I write

```
Download_video_link.streams.get_highest_resolution().download()
```

Like this

```
Download_Video_link.streams.get_highest_resolution().download()
```

This code helps to download the video with highest resolution

Ok, after that

I want to display the text

The download has done after this program finishes the download.

So, I write

Print("Download Done")

Like this

```
print("Download Done")
```

ok, now we finish this python project

so, I run this code and see how this works

when I run, it asks for the video link

and when I copy this YouTube video link and I passed this link

this is the YouTube video link I want to download and when I click enter it displays the video information and it says downloading

after that, after some time when the video download is finished, it shows the download done

and when I see this video folder as you see the video is downloaded perfectly.

So, you can run this code a gain and give different video links and see how it works.

Ok, now we finish this python project

I think you get some concepts about this python project to download YouTube videos.

Ok, this is all about this python project

Thanks for your time

I will see you in the next python project

Thanks again.

