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COLLEGE OF ENGINEERING & TECHNOLOGY

MINI PROJECT

YOUTUBE VIDEO DOWNLOADER

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AGENDA

- INTRODUCTION
- OBJECTIVE
- PYTHON LIBRARIES USED
- SCREENSHOTS
- REQUIREMENTS
- CONCLUSION

INTRODUCTION

- YOUTUBE VIDEO DOWNLOADER ENABLES YOU TO DOWNLOAD YOUTUBE VIDEOS USING THE URL OF THE VIDEO THAT IS TO BE DOWNLOADED. THE DESIRED VIDEO CAN BE DOWNLOADED WITHOUT MISLEADING ADS AND REDIRECTION, WITHIN JUST A FEW SECONDS.
- IN THIS MINI PROJECT, WE HAVE MADE USE OF TWO PYTHON LIBRARIES - "TKINTER" AND "PYTUBE".

OBJECTIVE

THIS YOUTUBE VIDEO DOWNLOADER WILL BE USEFUL FOR DOWNLOADING VIDEOS DIRECTLY FROM YOUTUBE BY COPYING AND PASTING THE URL OF THE VIDEO. THERE WILL BE NO NEED TO SEARCH FOR ONLINE VIDEO DOWNLOADERS THAT MOSTLY REDIRECT WEBSITES AND CONSIST OF A NUMBER OF MISLEADING ADVERTISEMENTS. SO, A VIDEO CAN BE DOWNLOADED FROM YOUTUBE IN A FEW CLICKS WITHIN A VERY SHORT TIME.

PYTHON LIBRARIES USED

TKINTER

PYTHON PROVIDES THE STANDARD LIBRARY *TKINTER* FOR CREATING THE GRAPHICAL USER INTERFACE FOR DESKTOP BASED APPLICATIONS. THERE ARE VARIOUS WIDGETS LIKE BUTTON, CANVAS, CHECKBUTTON, ENTRY, ETC. THAT ARE USED TO BUILD THE PYTHON GUI APPLICATIONS.

PYTUBE

PYTUBE IS A LIGHTWEIGHT LIBRARY WRITTEN IN PYTHON. IT HAS NO THIRD-PARTY DEPENDENCIES AND AIMS TO BE HIGHLY RELIABLE. PYTUBE INCLUDES A COMMAND-LINE UTILITY, ALLOWING YOU TO DOWNLOAD VIDEOS RIGHT FROM THE TERMINAL.

TKINTER

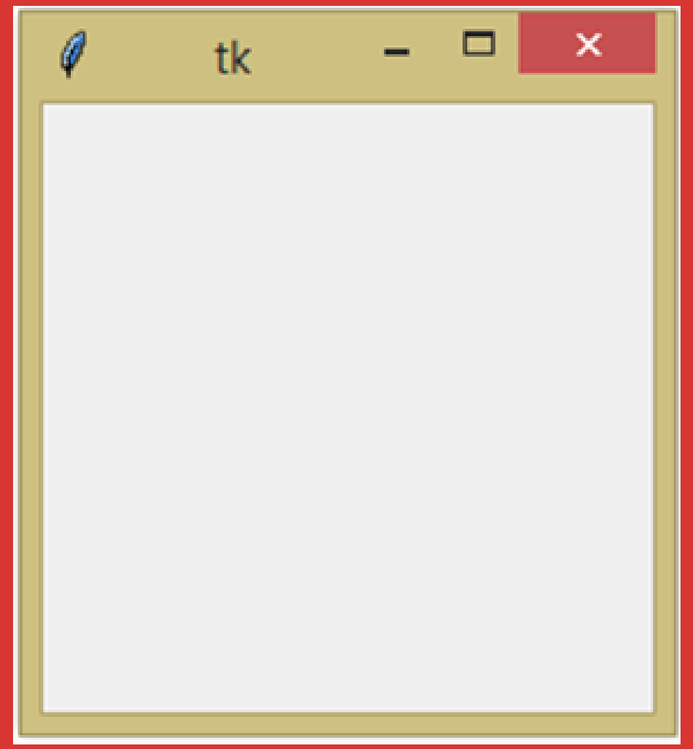
DEVELOPING DESKTOP BASED APPLICATIONS WITH PYTHON TKINTER IS NOT A COMPLEX TASK. AN EMPTY TKINTER TOP-LEVEL WINDOW CAN BE CREATED BY USING THE FOLLOWING STEPS.

1. IMPORT THE TKINTER MODULE.
2. CREATE THE MAIN APPLICATION WINDOW.
3. ADD THE WIDGETS LIKE LABELS, BUTTONS, FRAMES, ETC. TO THE WINDOW.
4. CALL THE MAIN EVENT LOOP SO THAT THE ACTIONS CAN TAKE PLACE ON THE USER'S COMPUTER SCREEN.

Example:

```
from tkinter import *
#creating the application main window.
top = Tk()
#Entering the event main loop
top.mainloop()
```

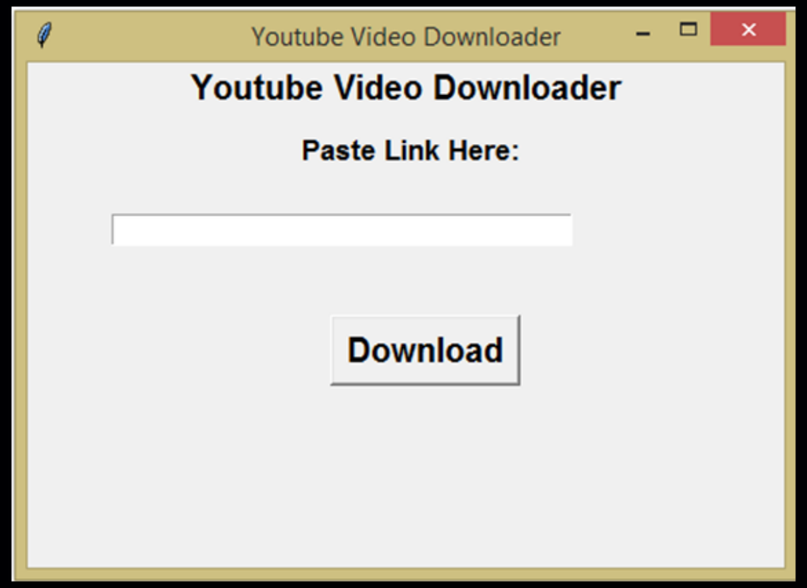
Output:

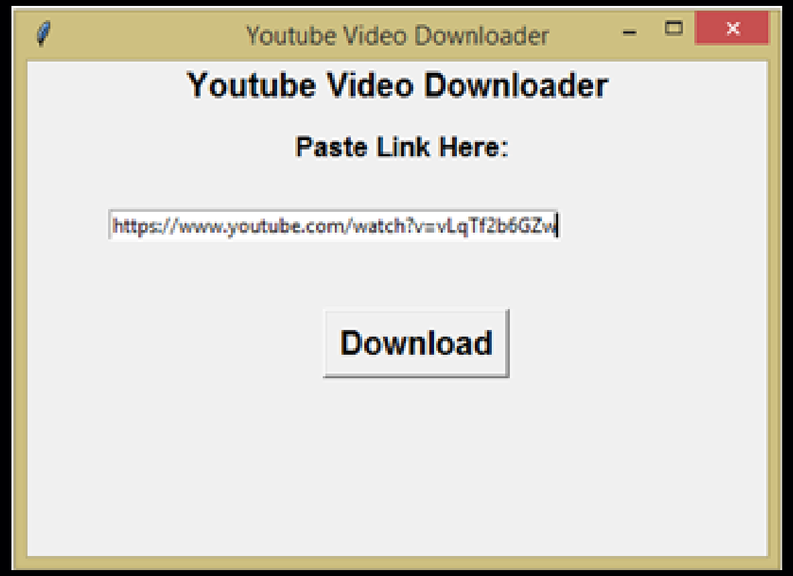


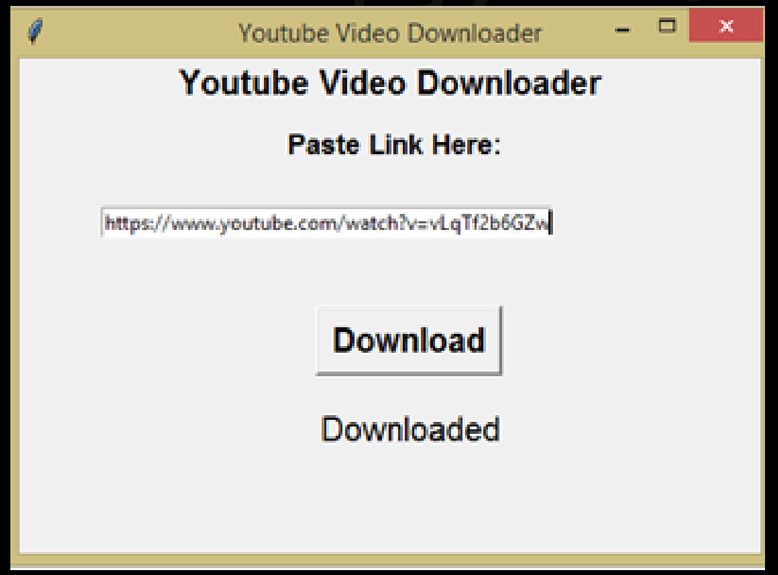
PYTUBE

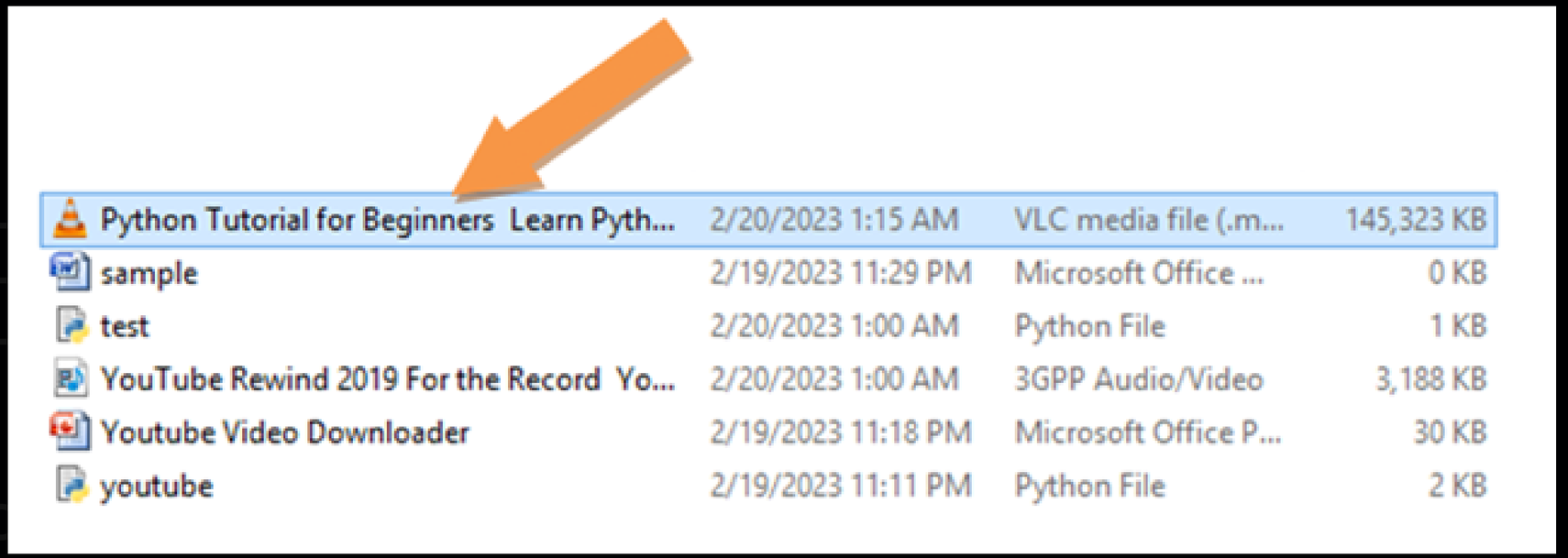
PYTUBE LIBRARY NEEDS TO BE INSTALLED USING PIP. TO DOWNLOAD A VIDEO USING THE LIBRARY IN A SCRIPT, YOU'LL NEED TO IMPORT THE YOUTUBE CLASS FROM THE LIBRARY AND PASS AN ARGUMENT OF THE VIDEO URL. FROM THERE, YOU CAN ACCESS THE STREAMS AND DOWNLOAD THEM. TO FETCH INFORMATION ABOUT THE VIDEO THAT YOU WANT TO DOWNLOAD USING THE URL OF THE VIDEO, YOU NEED TO FIRST, CREATE AN INSTANCE WITH THE YOUTUBE VIDEO'S URL ON WHICH YOU WANT TO PERFORM OPERATIONS. SIMPLY COPY THE URL OF THE YOUTUBE VIDEO AND PASS IT AS AN ARGUMENT TO THE YOUTUBE() OBJECT.

Screenshots:









REQUIREMENTS

HARDWARE REQUIREMENTS

01 OPERATING SYSTEM: WINDOWS 7 OR ABOVE

02 PROCESSOR: INTEL CORE I5 OR EQUIVALENT

03 RAM: 4GB OR ABOVE

SOFTWARE REQUIREMENTS

01 EDITOR: PYTHON 3.6 OR ABOVE

02 TKINTER LIBRARY

03 PYTUBE LIBRARY

CONCLUSION

PYTHON IS A PROGRAMMING LANGUAGE THAT PROVIDES A LARGE VARIETY OF PRE-DEFINED MODULES AND LIBRARIES WHICH MAKES IT EXTREMELY EASY TO BUILD A PROJECT THAT INCLUDES GRAPHIC USER INTERFACE AND MANY OTHER FEATURES.

YOUTUBE VIDEO DOWNLOADER IS ONE SUCH PROJECT AND COMES IN HANDY TO DOWNLOAD YOUTUBE VIDEOS EASILY WITHOUT ANY DIVERTIONS.

THANK YOU