import yt\_dlp

import os

import tkinter as tk

from tkinter import messagebox

def download\_video():

    url = url\_entry.get()  # Get URL from the entry widget

    if not url:

        messagebox.showerror("Input Error", "Please enter a valid YouTube URL.")

        return

    # Set the path to save videos in C:/Users/Student

    download\_folder = r'C:\Users\Asus\OneDrive\Desktop\Code\CapStone\prac3'  # Make sure this folder exists

    if not os.path.exists(download\_folder):

        os.makedirs(download\_folder)  # Create the folder if it doesn't exist

    ydl\_opts = {

        'format': 'best',  # Choose the best available format

        'outtmpl': os.path.join(download\_folder, '%(title)s.%(ext)s'),  # Save in the 'Student' folder with the title as filename

        'progress\_hooks': [on\_progress]  # Function to handle progress updates

    }

    try:

        with yt\_dlp.YoutubeDL(ydl\_opts) as ydl:

            ydl.download([url])

            messagebox.showinfo("Success", f"Download completed successfully!\nFile downloaded to: {os.path.abspath(download\_folder)}")

    except Exception as e:

        messagebox.showerror("Download Error", f"An error occurred: {str(e)}")

def on\_progress(d):

    if d['status'] == 'downloading':

        progress\_label.config(text=f"Downloading: {d['filename']} - {d['\_percent\_str']}")

# Set up the Tkinter window

root = tk.Tk()

root.title("YouTube Video Downloader")

# URL Entry

url\_label = tk.Label(root, text="Enter YouTube Video URL:")

url\_label.pack(pady=10)

url\_entry = tk.Entry(root, width=40)

url\_entry.pack(pady=5)

# Download Button

download\_button = tk.Button(root, text="Download Video", command=download\_video)

download\_button.pack(pady=20)

# Progress Label

progress\_label = tk.Label(root, text="Progress: None", font=("Arial", 12))

progress\_label.pack(pady=10)

# Run the Tkinter event loop

root.mainloop()

