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In [2]: from tkinter import messagebox, filedialog, ttk
        from tkinter import *
        from threading import Thread
        import pytube

        win=Tk()
        win.geometry("800x500")
        win.configure(bg='lightblue')
        win.resizable(height=False,width=False)
        win.title("Youtube & MP3 Downloader")
        win.iconbitmap('yt.ico')

        # create a photoImage object to use images
        #photo=PhotoImage(file='fi.jpg')

        def browse():
            global f
            f=filedialog.askdirectory(initialdir='PATH',title='save video')
            label_path.configure(text=f)

        def download():
            videourl=video_url.get()
            #location=entry_destination.get()

            try:
                con=pytube.YouTube(videourl,on_progress_callback=on_progress)
                video=con.streams.get_highest_resolution()
                video_title.configure(text=con.title)
                video.download(f)
                messagebox.showinfo("Result","Download completed")
            except:
                messagebox.showerror("validtaion","please check internet or video url or Pa

        def mp3():
            videourl=video_url.get()
            #location=entry_destination.get()

            try:
                con=pytube.YouTube(videourl,on_progress_callback=on_progress)
                video=con.streams.filter(only_audio=True).first()
                video.download(f,filename=f"{video.title}.mp3")
                video_title.configure(text=con.title)
                messagebox.showinfo("Result","Download completed")
            except :
                messagebox.showerror("validtaion","please check internet or video url or Pa

        def clear():
            video=video_url.delete(0,'end')
            video_title.configure(text='')
            video_url.focus()

        def on_progress(stream,chunk,bytes_reaming): # progress bar
            total_size=stream.filesize
            bytes_downloading=total_size-bytes_reaming

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per_of_completion=bytes_downloading/total_size*100 # coming value in float
per=str(int(per_of_completion)) # value coming in int now
label_per.configure(text=per+'%')
label_per.update()

#progress bar update
# bar.step(float(per_of_completion)/100)
bar['value']=per

def threading_video():
    thread=Thread(target=download)
    thread.start()

def threading_mp3():
    thread=Thread(target=mp3)
    thread.start()

label_url=Label(win,text='Youtube Video & Mp3 Downloader',font=("",20,'bold'),bg='lightblue')
label_url.pack()

#video title
video_title=Label(win,text='',font=("",15,'bold'),bg='lightblue',fg='purple')
video_title.pack(padx=10,pady=10)

label2=Label(win,text='Youtube Link',font=("",20,'bold'),bg='lightblue',fg='purple')
label2.place(relx=.17,rely=.2)

video_url=Entry(win,font=("",20,'bold'),bd=5)
video_url.place(relx=.4,rely=.2)
video_url.focus()

label_destination=Label(win,text="Destination",font=("",20,'bold'),bg='lightblue',fg='purple')
label_destination.place(relx=.17,rely=.4)

label_path=Label(win,text="Please select folder to save the file",font=("",13,'bold'),bg='lightblue',fg='purple')
label_path.place(relx=.40,rely=.4)

btn_browse=Button(win,command=browse,text='Browse',font=("",20,'bold'),width=6)
btn_browse.place(relx=.78,rely=.38)

btn_yt_video=Button(win,command=threading_video,text='Download Highest Resolution',font=("",12,'bold'),bg='lightblue')
btn_yt_video.place(relx=.13,rely=.6)

btn_yt_mp3=Button(win,command=threading_mp3,text='Download MP3',font=("",12,'bold'),bg='lightblue')
btn_yt_mp3.place(relx=.45,rely=.6)

btn_yt_clear=Button(win,command=clear,text='Clear',font=("",12,'bold'),width=15,height=1)
btn_yt_clear.place(relx=.72,rely=.6)

label_status=Label(win,text="Downloading status",font=("",12,'bold'),bg='lightblue',fg='purple')
label_status.place(relx=.17,rely=.75)

label_per=Label(win,text="",font=("",12,'bold'),bg='lightblue',fg='purple')
label_per.place(relx=.80,rely=.75)

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# progress bar
bar=ttk.Progressbar(win, orient = HORIZONTAL, length = 300, mode = 'determinate')
bar.place(relx=.40,rely=.75)

frm=Frame(win)
frm.configure(bg='lightblue')
frm.place(relx=0,rely=.88,relwidth=1,relheight=.20)

owner=Label(frm,text="Created by VARUN SABHARWAL",font=("",12,'bold'),bg='lightblue')
owner.pack()

win.mainloop()
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