Steganography Tool for Image/File Hiding

Total 4 Modules are Required

1 Tkinter Modules: Tkinter is Python's standard library for creating Graphical User Interfaces (GUIs). It provides a set of modules and widgets that enable developers to build desktop applications with graphical interfaces.

2 PIL Modules: PIL is the Python Imaging Library which provides the python interpreter with image editing capabilities. The Image module provides a class with the same name which is used to represent a PIL image.

3 OS Modules: In the context of operating systems, modules are individual, independent components that perform specific functions and can be dynamically loaded and unloaded. This modular design allows for flexibility and easier maintenance, as individual parts can be updated or replaced without affecting the entire system

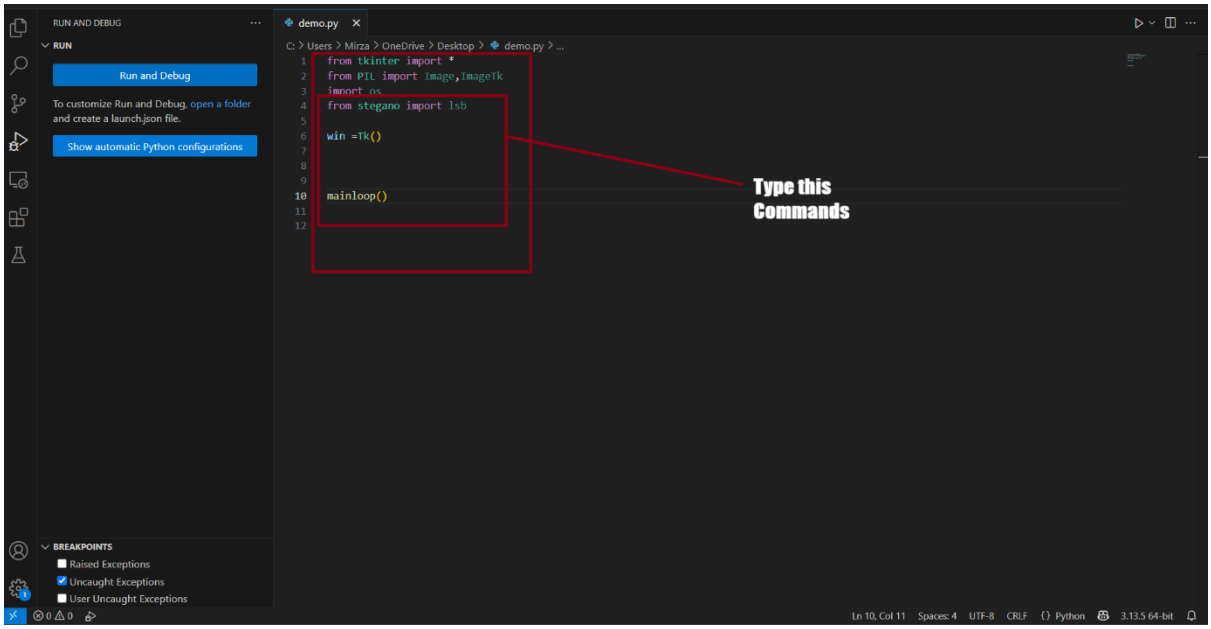
4 Stegano Modules: Stegano is a Python library designed for steganography, the art and science of concealing a message within another message. It focuses on hiding messages, not encrypting them, and is often used in conjunction with cryptography.

Note: Using Python to create Steganography Tool.

Steps to Follow

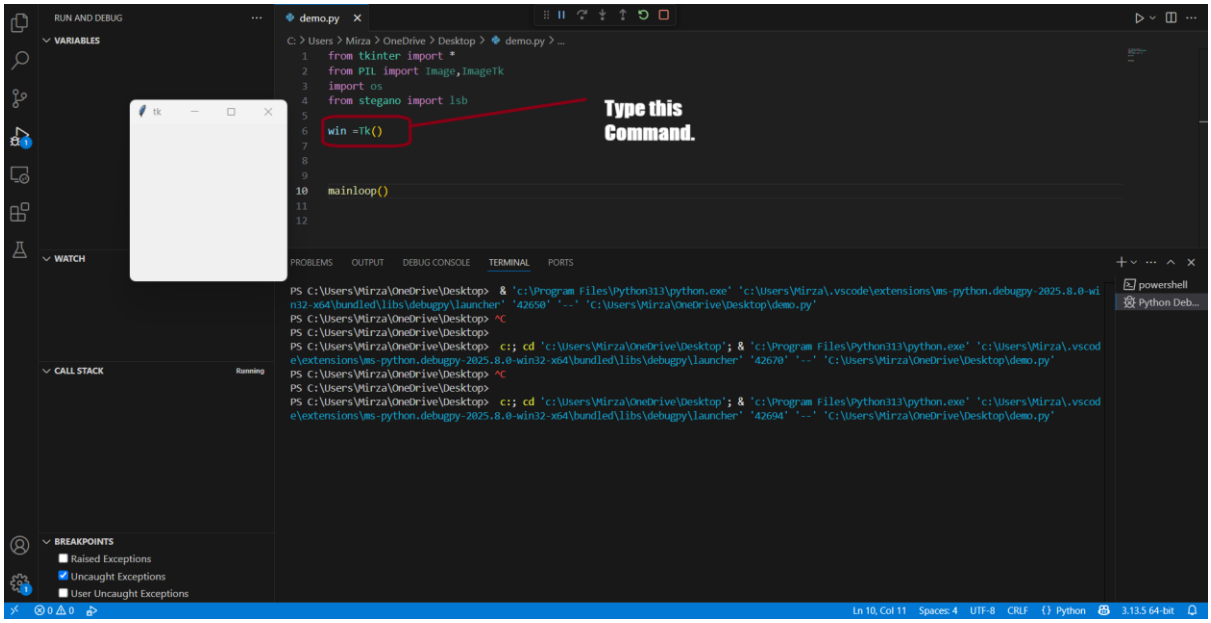
Step 1: Open Pycharm Application and created a Folder.

Step 2: Type the Commands which is provided in the SS Below.

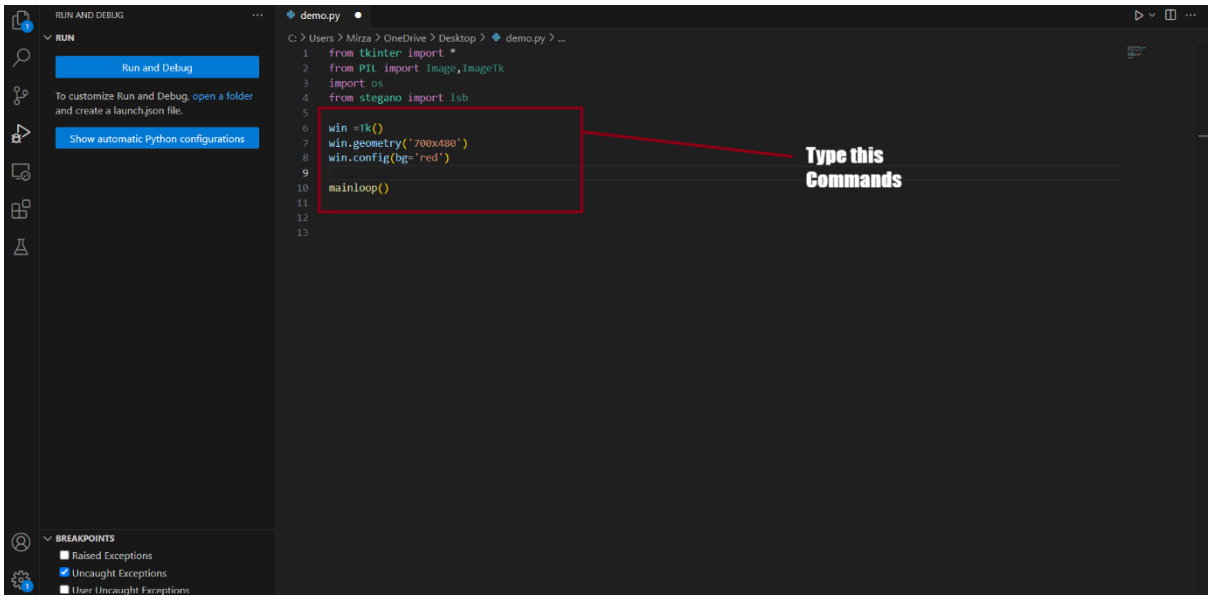


Step 3: Open terminal in Pycharm and use the Command " pip install Stegano, enter after installing close the terminal once the Stegano Module is Installed.

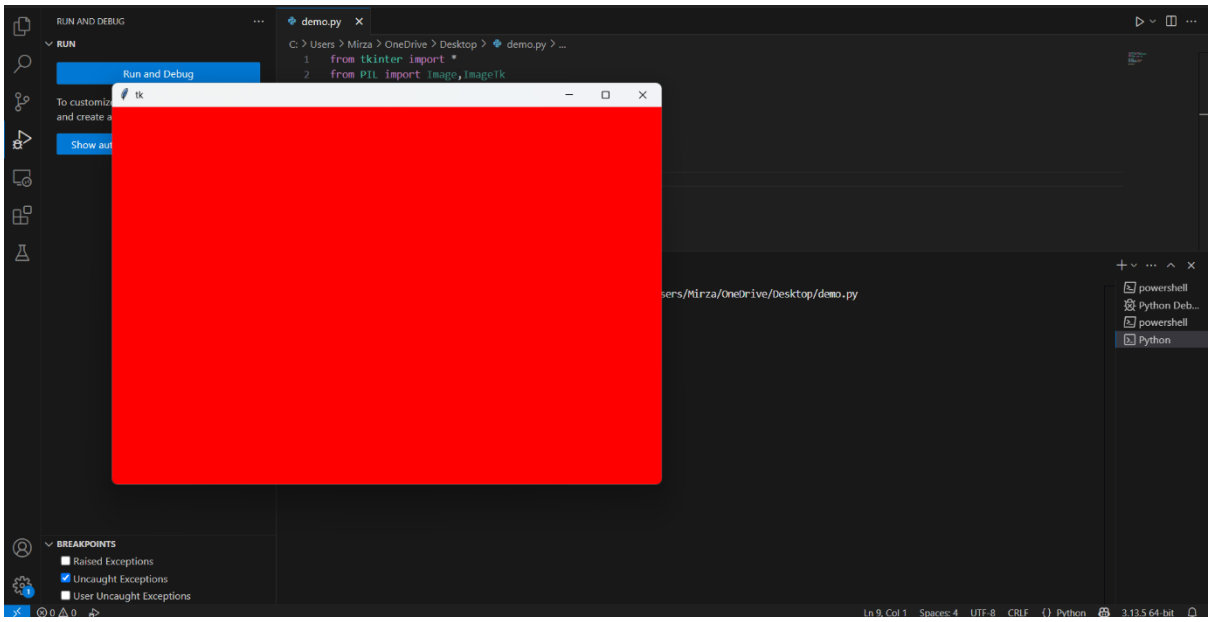
Step 4: Now create a window from tinker module by using the command given below in the SS.



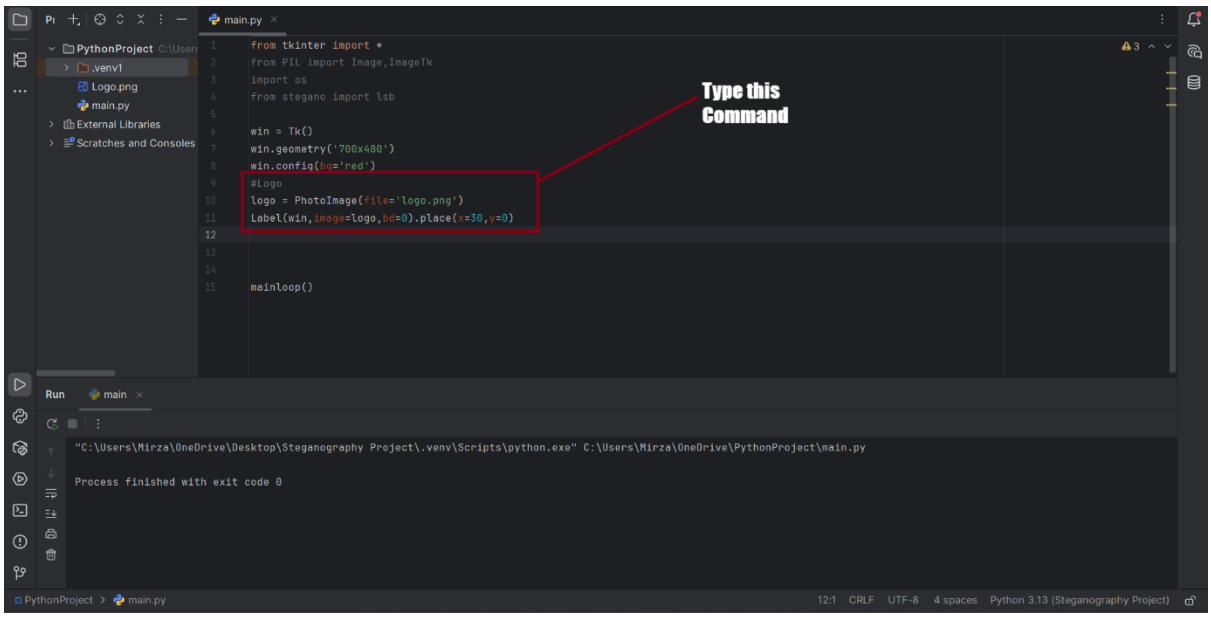
Step 5: We need to change the window size and the background color type the commands given in the SS Below.



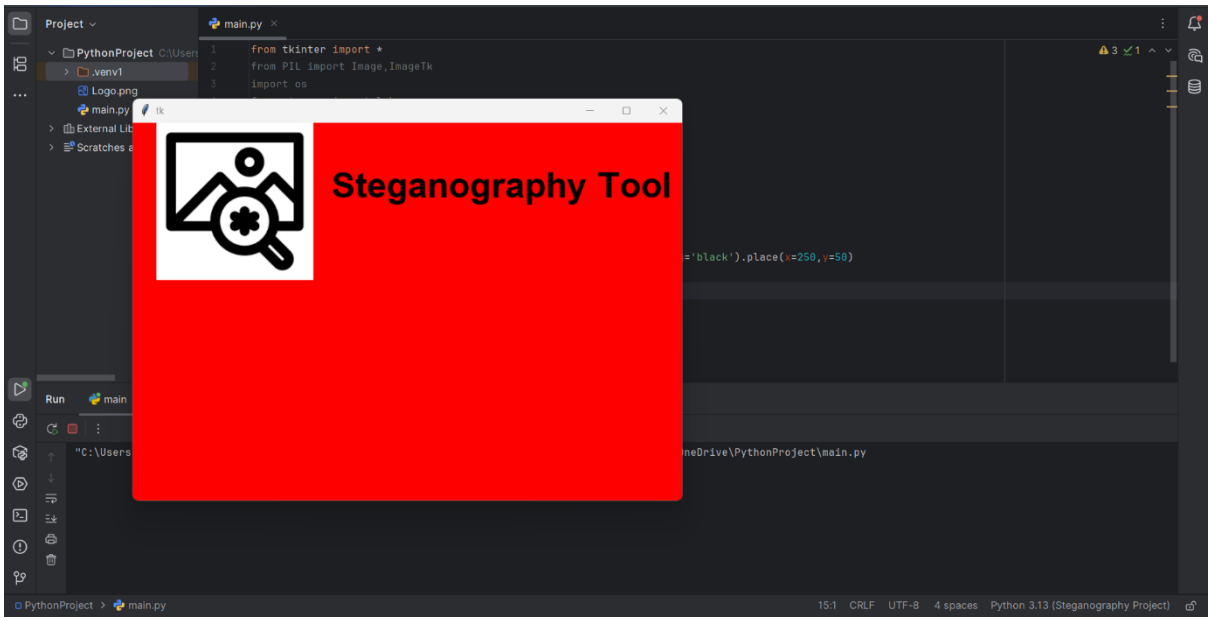
Result Of Step 5: Then run the command to check the window size and background color in the below SS.



Step 6: Now we have to add the logo type the commands used in the below SS.

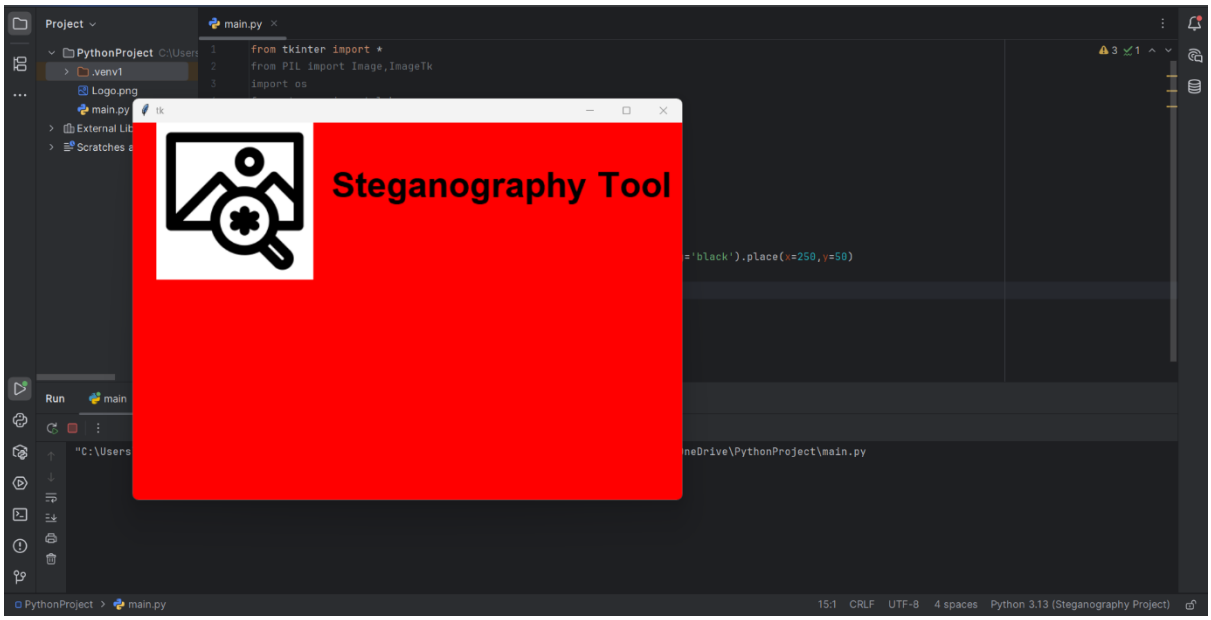


Result of Step 6: Then Run the command to check the result given in the below SS.



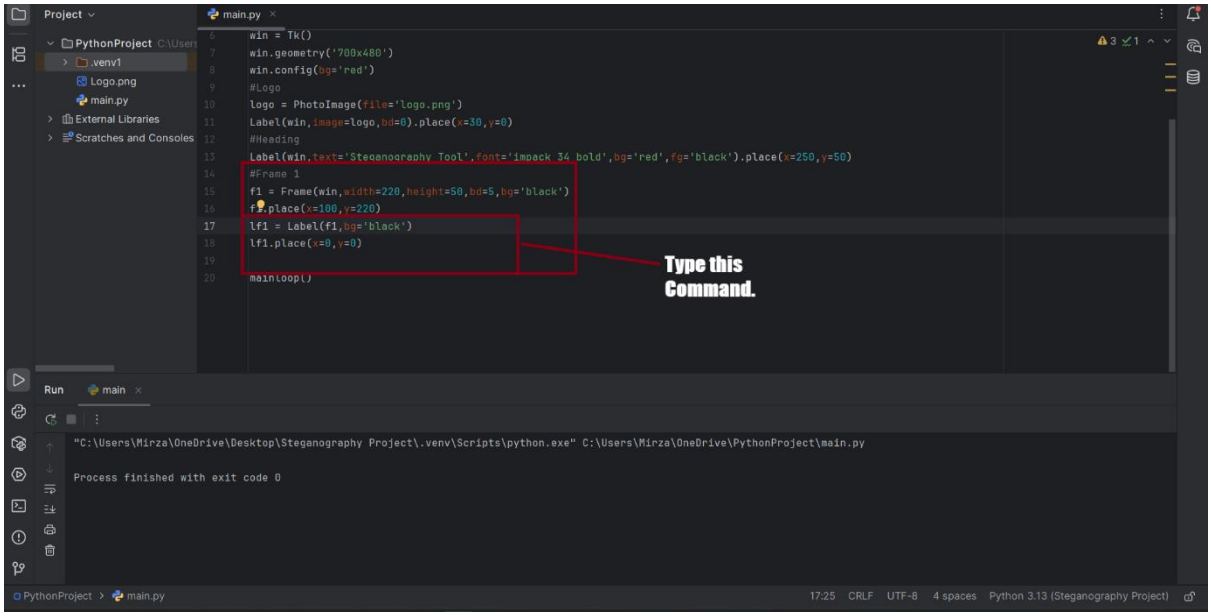
Step 7: Now we have to add the Heading Use the Command Given Below in the SS.

Result of Step 7: Then run the command to Check the Result given in the below SS.

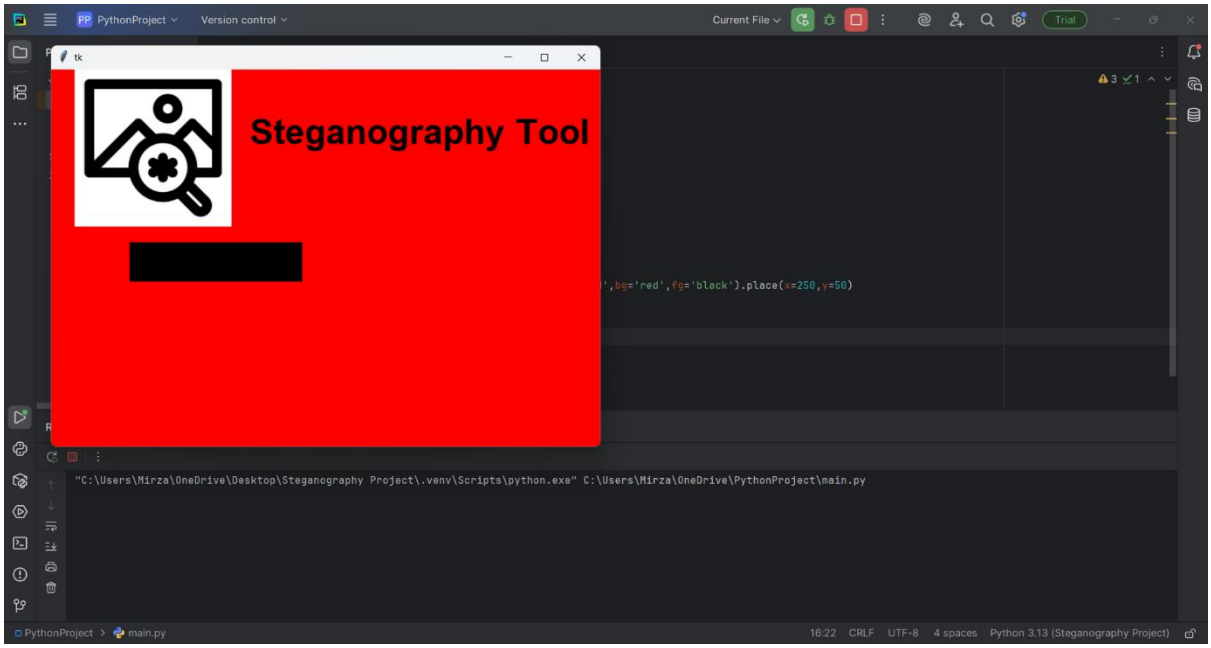


Step 8: Now we have to add the frames use the command given Below in the SS.

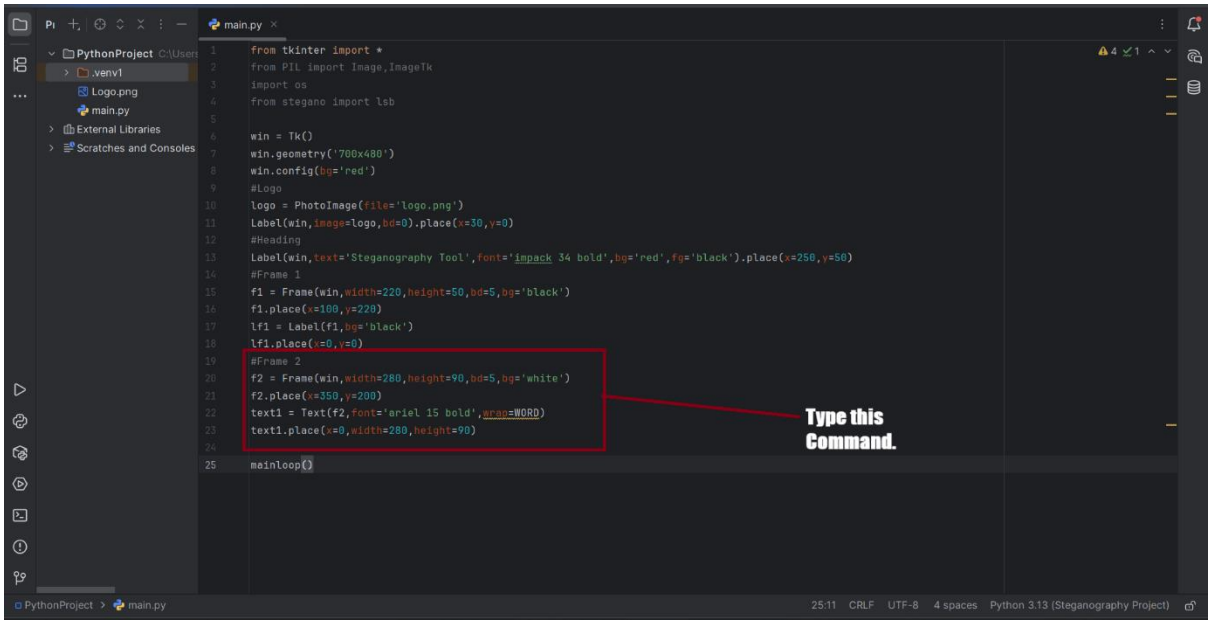
Frame 1 And Label 2



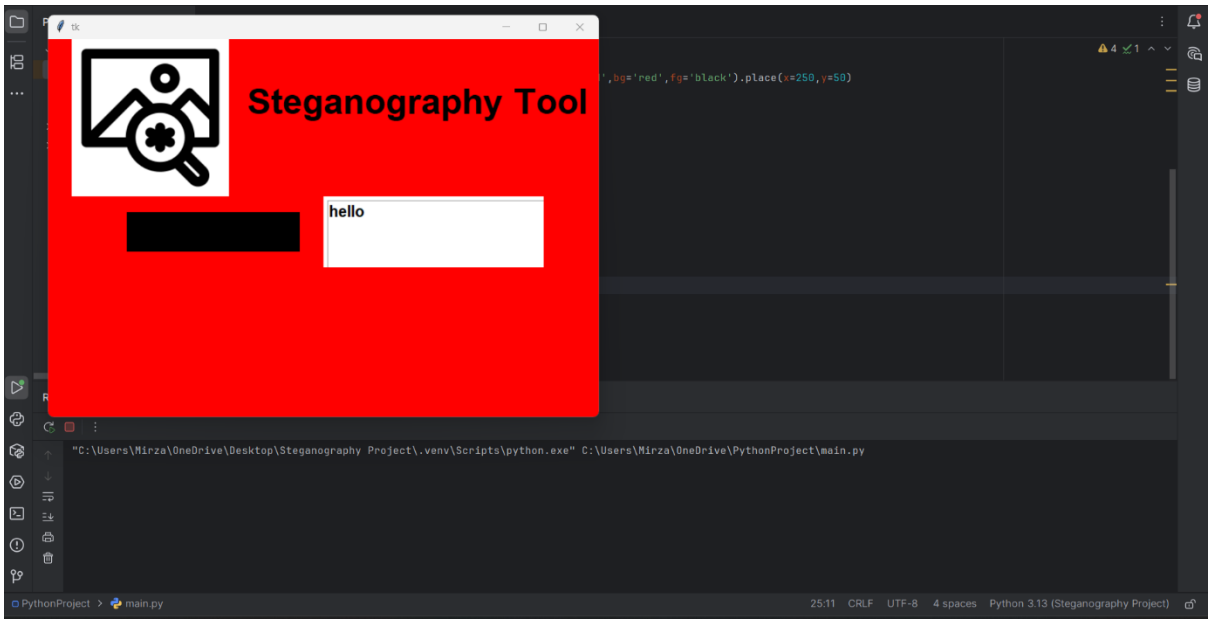
Result of Step 8 Frame 1 And Label 2: Then run the command and check the result given in the below SS.



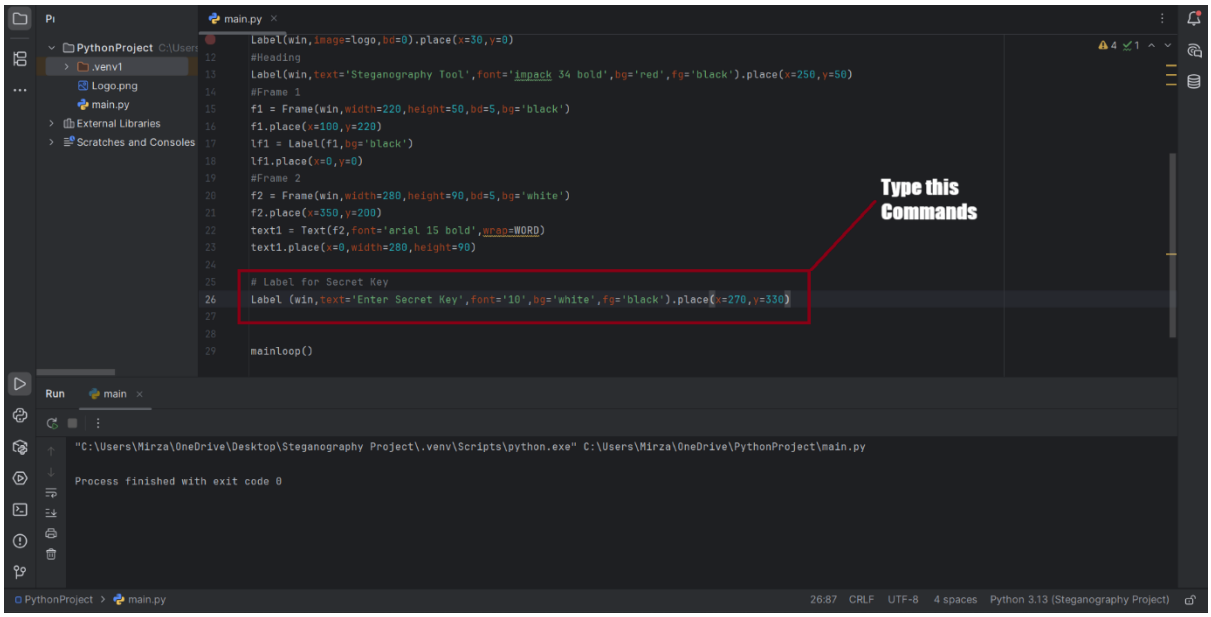
Frame 2 and Text 1



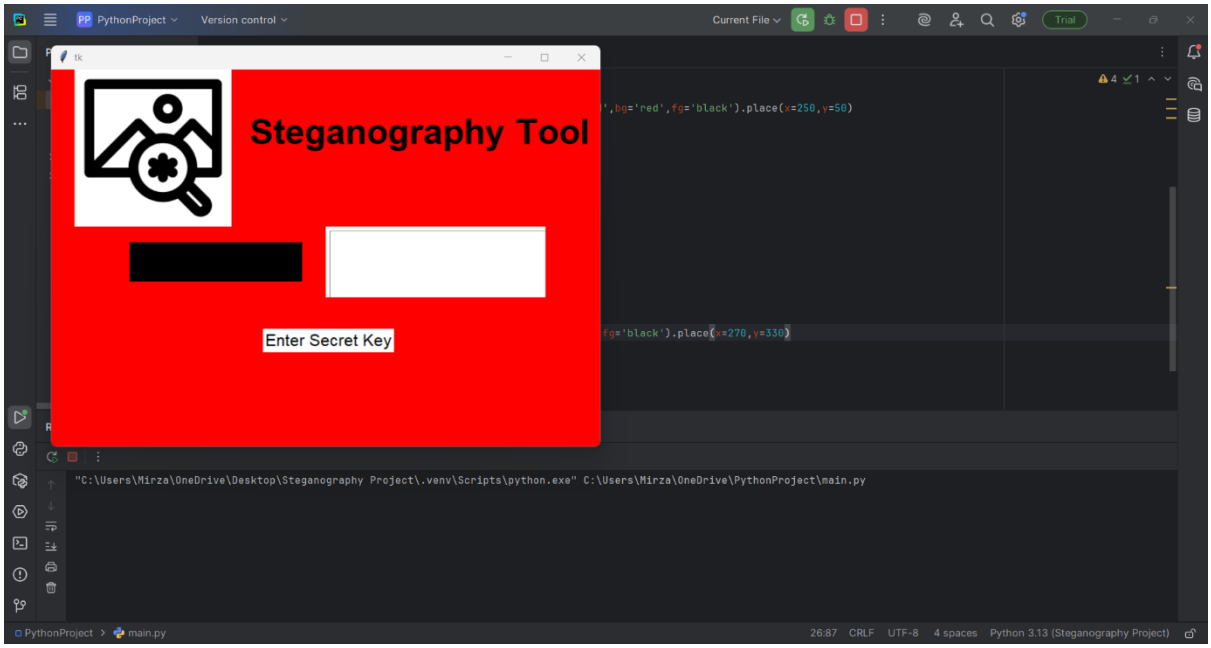
Result of Step 8 Frame 2 and Text 1: Then run the command and check the result given in the below SS.



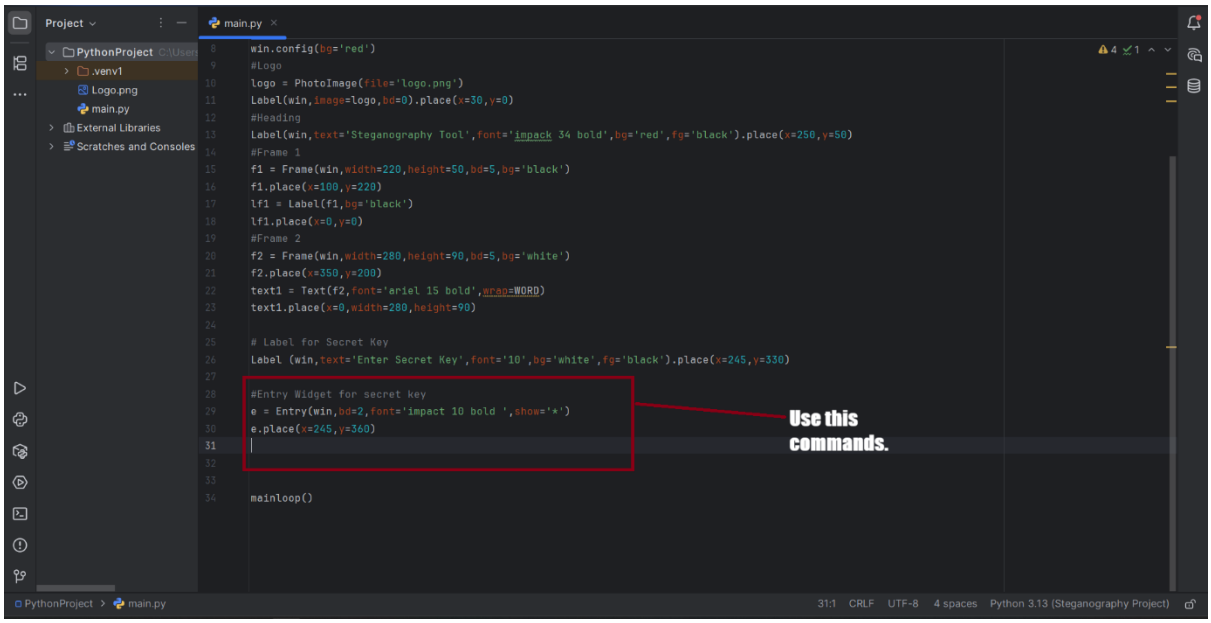
Step 9: Now we have to make Label for secret Key Use the Commands given below in the SS



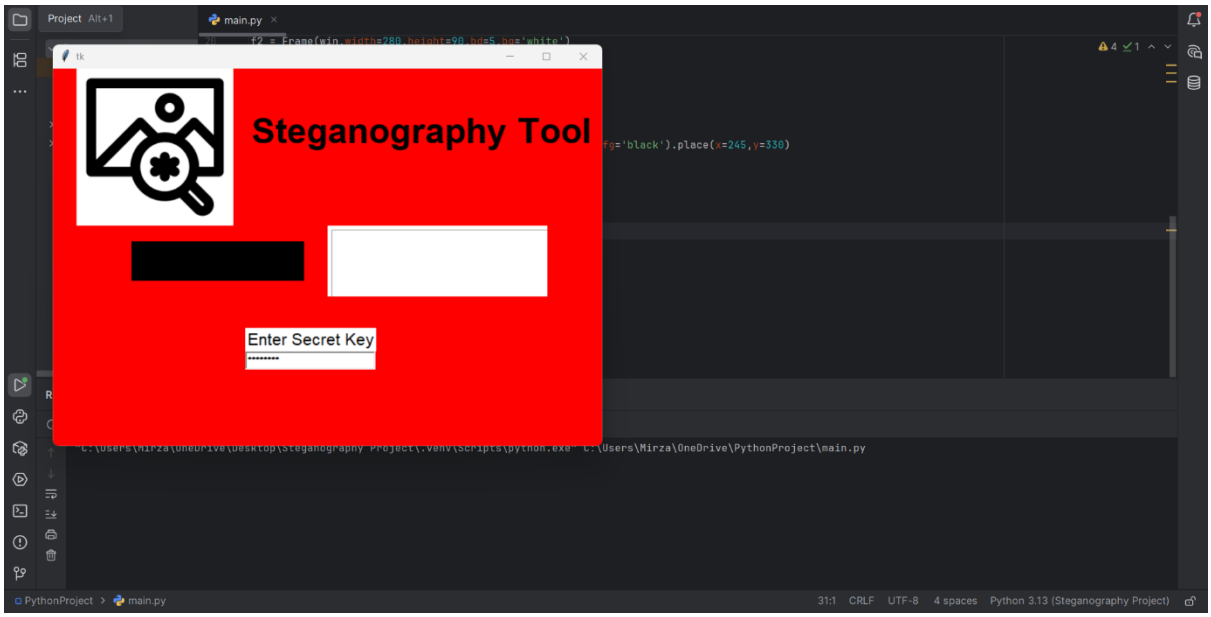
Result of Step 9: Then run the command and check the result given in the below SS.



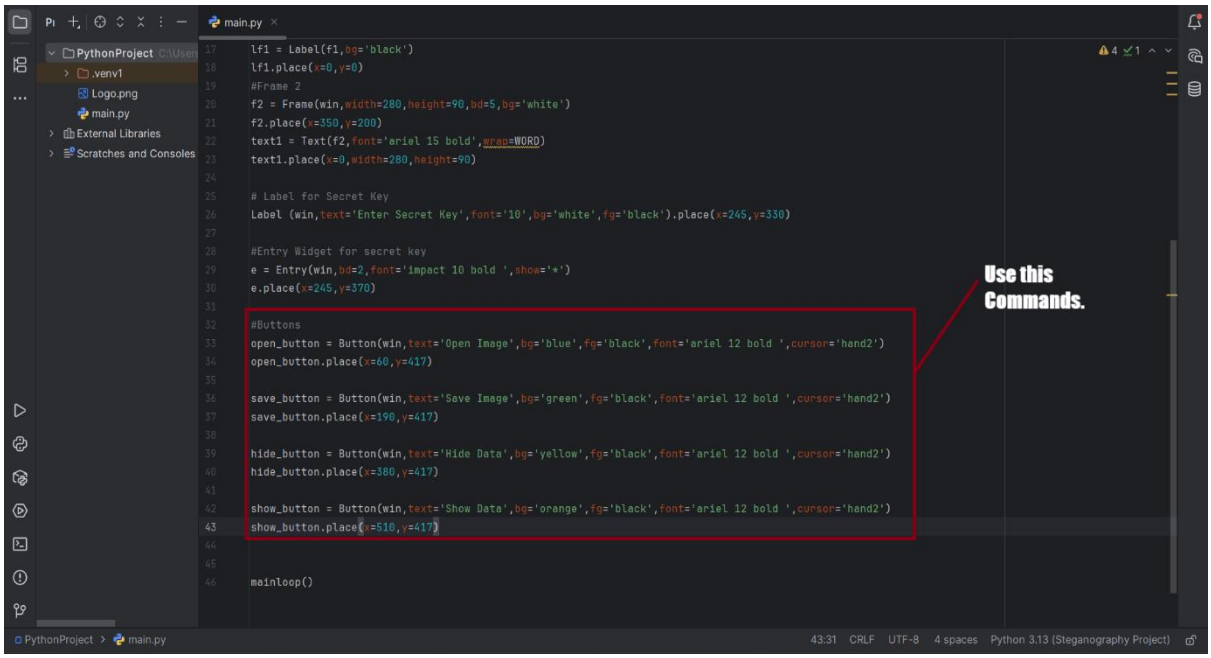
Step 10: Now we have to make entry widget for secret key use the commands given below in the SS.



Result of Step 10: Then run the command and check the result given in the below SS.

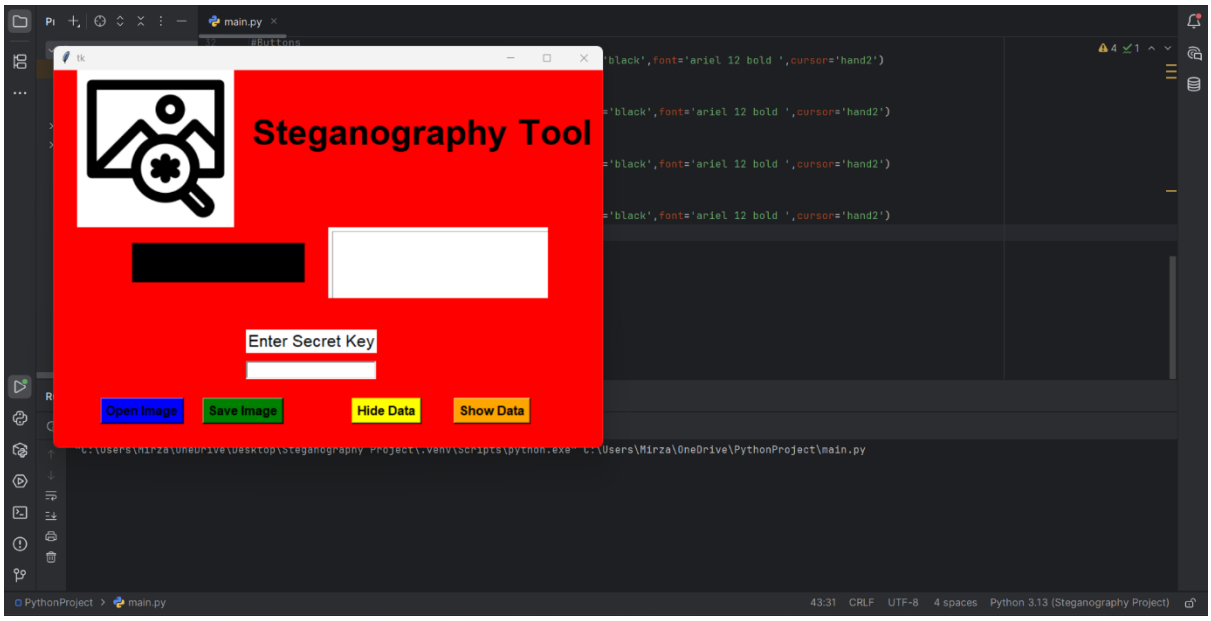


Step 11: Now we have to make 4 buttons for submitting the request use the commands given below in the SS.

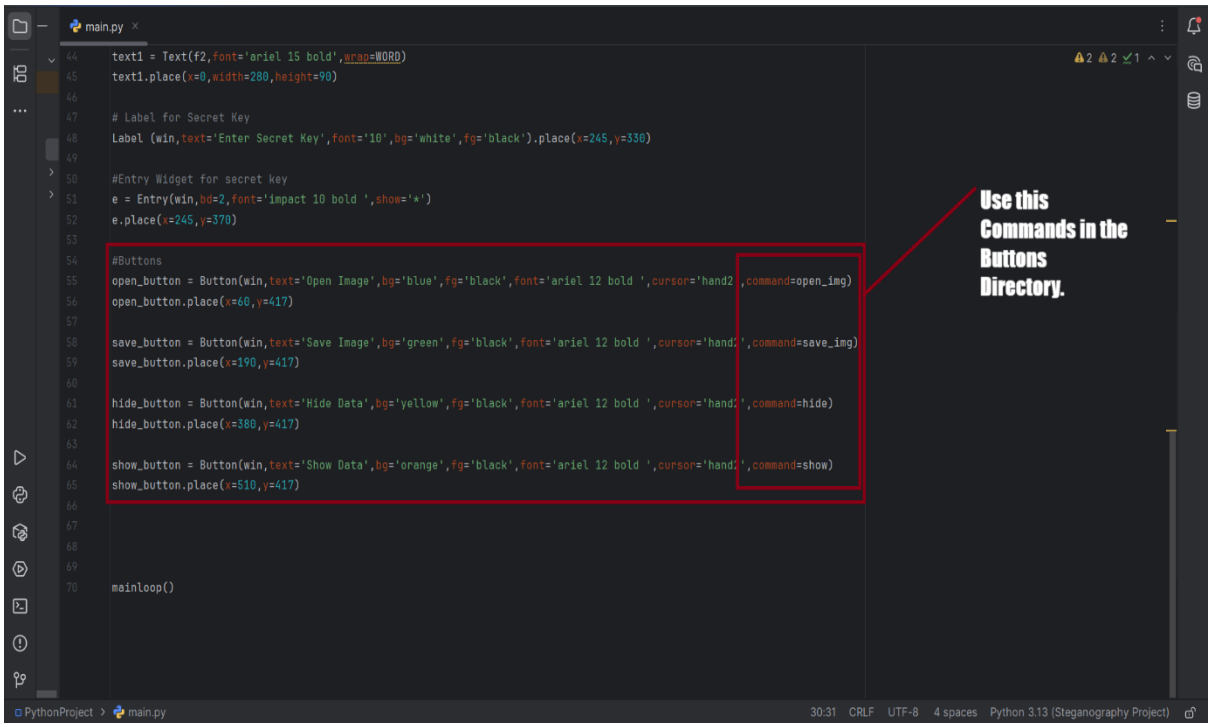



```
lf1 = Label(f1,bg='black')
lf1.place(x=0,y=0)
#Frame 2
f2 = Frame(win,width=280,height=90,bd=5,bg='white')
f2.place(x=350,y=200)
text1 = Text(f2,font='ariel 15 bold',wrap=WORD)
text1.place(x=0,width=280,height=90)

# Label for Secret Key
Label (win,text='Enter Secret Key',font='10',bg='white',fg='black').place(x=245,y=330)

#Entry Widget for secret key
e = Entry(win,bd=2,font='impact 10 bold ',show='*')
e.place(x=245,y=370)

#Buttons
open_button = Button(win,text='Open Image',bg='blue',fg='black',font='ariel 12 bold ',cursor='hand2')
open_button.place(x=60,y=417)

save_button = Button(win,text='Save Image',bg='green',fg='black',font='ariel 12 bold ',cursor='hand2')
save_button.place(x=190,y=417)

hide_button = Button(win,text='Hide Data',bg='yellow',fg='black',font='ariel 12 bold ',cursor='hand2')
hide_button.place(x=380,y=417)

show_button = Button(win,text='Show Data',bg='orange',fg='black',font='ariel 12 bold ',cursor='hand2')
show_button.place(x=510,y=417)


mainloop()
```

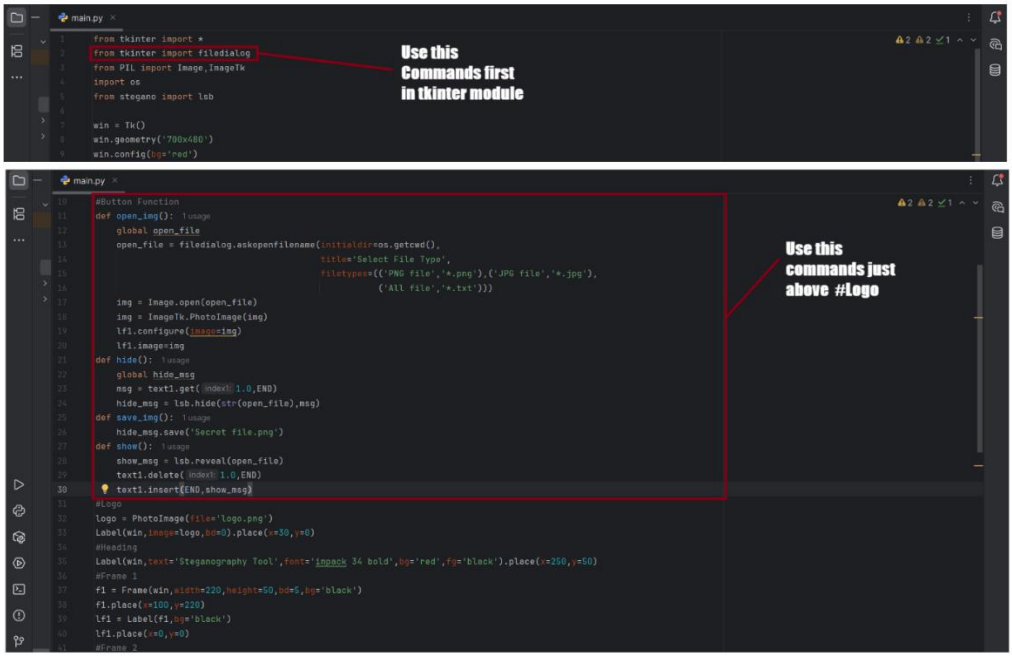
Result of Step 11: Then run the command and check the result given in the below SS.



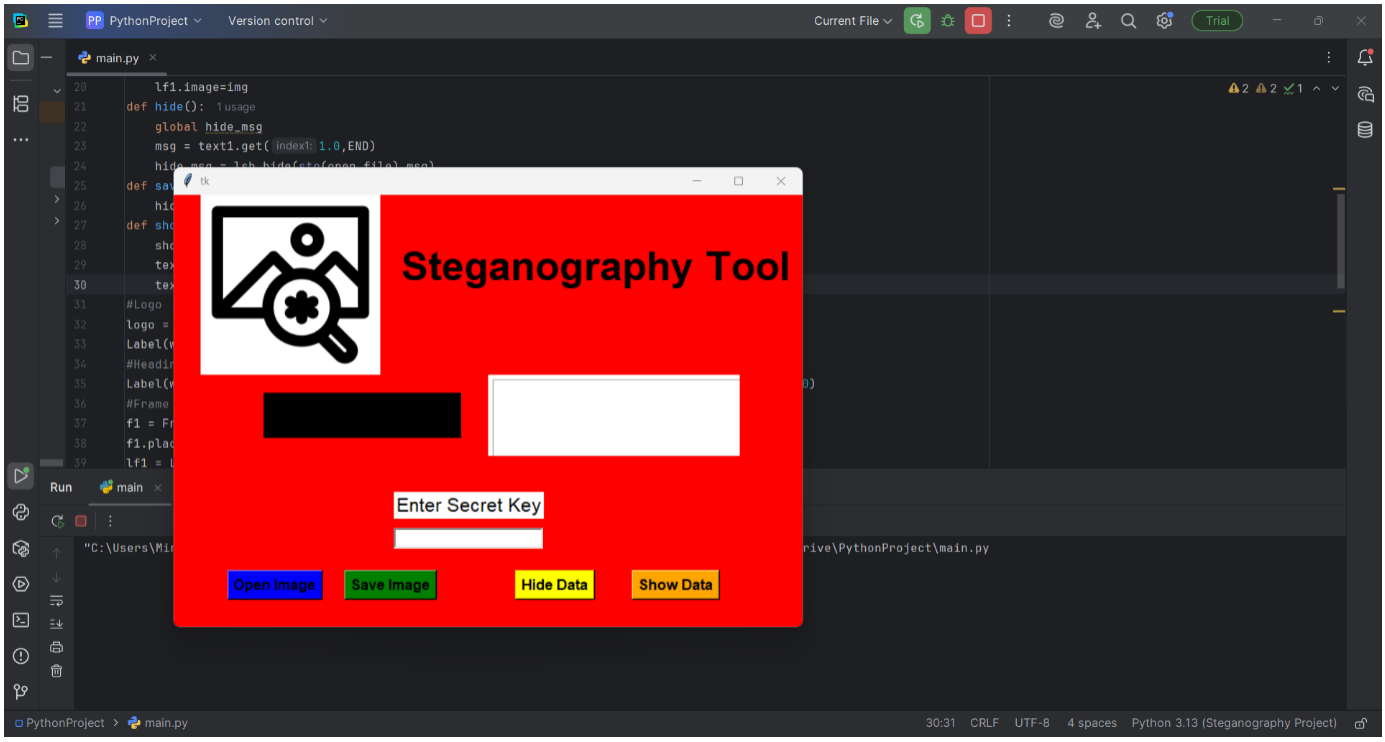
Step 12: Now we have to give the functions to the Particular Buttons provided use this Commands given below in the SS



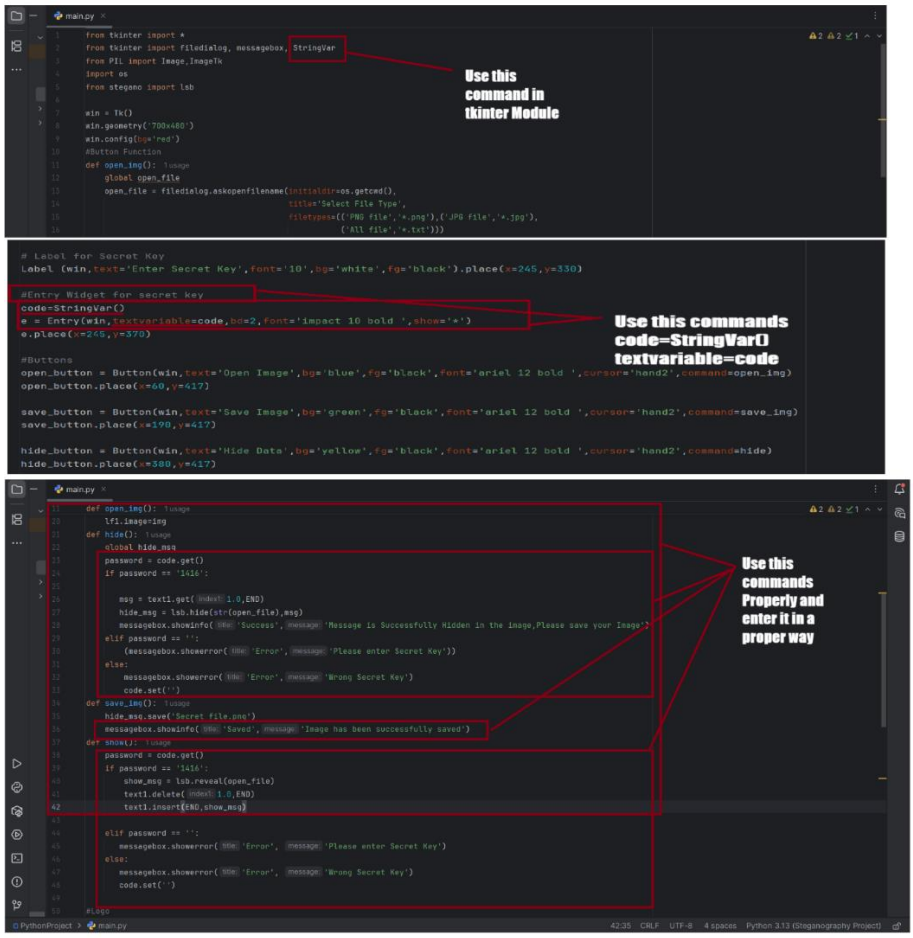
Use this Tkinter Module Command Before Open, Hide, Save and show commands as given in the SS below.



Result of Step 12: Then run the command and check the result in the SS below



Step 13: Now we have to Give the conditions for the Required functions given in the SS below.



Result of Step 13:

Then run the command and check the result in the in the Screen Recording which will be given in the GitHub Repository as Demo Video of Steganography Tool.

The Steganography Tool is Ready and we will be able to use the application.