

## Creating a frontend GUI app using tkinter application

```
In [2]: import tkinter as tk

# function to called when button is clicked
def on_button_click():
    label.config(text='Button clicked')
    print('hello world')

#create the main application window
root=tk.Tk()
root.title('Simple tkinter app')
root.geometry('200x300')

#create label widget
label=tk.Label(root,text='Hello world')
label.pack(pady=20)

#Button Creation
button=tk.Button(root,text='touch me',command=on_button_click)
button.pack(pady=20)

root.mainloop()
```

```
hello world
hello world
hello world
```

## We can also add print statements

```
In [4]: import tkinter as tk

# function to called when button is clicked
def on_button_click():
    label.config(text='Button clicked')
    print('hello')
```

```

    print('i love my country')

#create the main application window
root=tk.Tk()
root.title('Simple tkinter app')
root.geometry('200x300')

#create label widget
label=tk.Label(root,text='Hello world')
label.pack(pady=20)

#Button Creation
button=tk.Button(root,text='touch me',command=on_button_click)
button.pack(pady=20)

root.mainloop()

```

```

hello
i love my country
hello
i love my country
hello
i love my country

```

## Creating a message box by using tkinter and showing up the frontend app

```

In [16]: import tkinter as tk
        from tkinter import messagebox

#Creating the main window
root=tk.Tk()
root.title('Greeting app')
root.geometry('300x200')

#Function to handle the greeting
def greet():
    name=name_entry.get()
    if name:
        messagebox.showinfo('Greeting',f'Hi,{name}!')
    else:

```

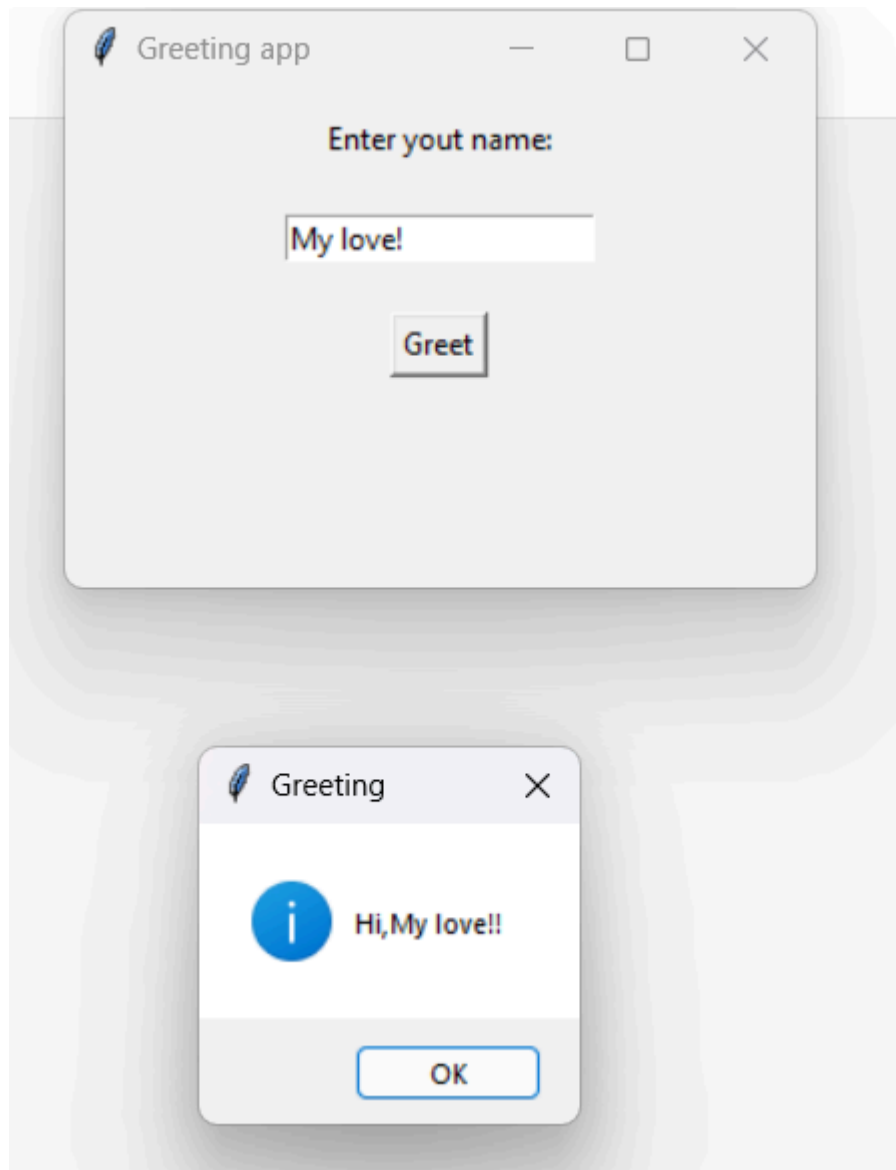
```
        messagebox.showwarning('Input Error','please enter your name.')

#Creating a Label
name_label=tk.Label(root,text='Enter your name:')
name_label.pack(pady=10)

#Creating an entry widget for name input
name_entry=tk.Entry(root)
name_entry.pack(pady=10)

#Creating a button to trigger the greeting
greet_button=tk.Button(root,text='Greet',command=greet)
greet_button.pack(pady=10)

#Run the Tkinter main loop
root.mainloop()
```



```
In [18]: import tkinter as tk
        from tkinter import messagebox

        #Creating the main window
```

```
root=tk.Tk()
root.title('Greeting app')
root.geometry('300x200')

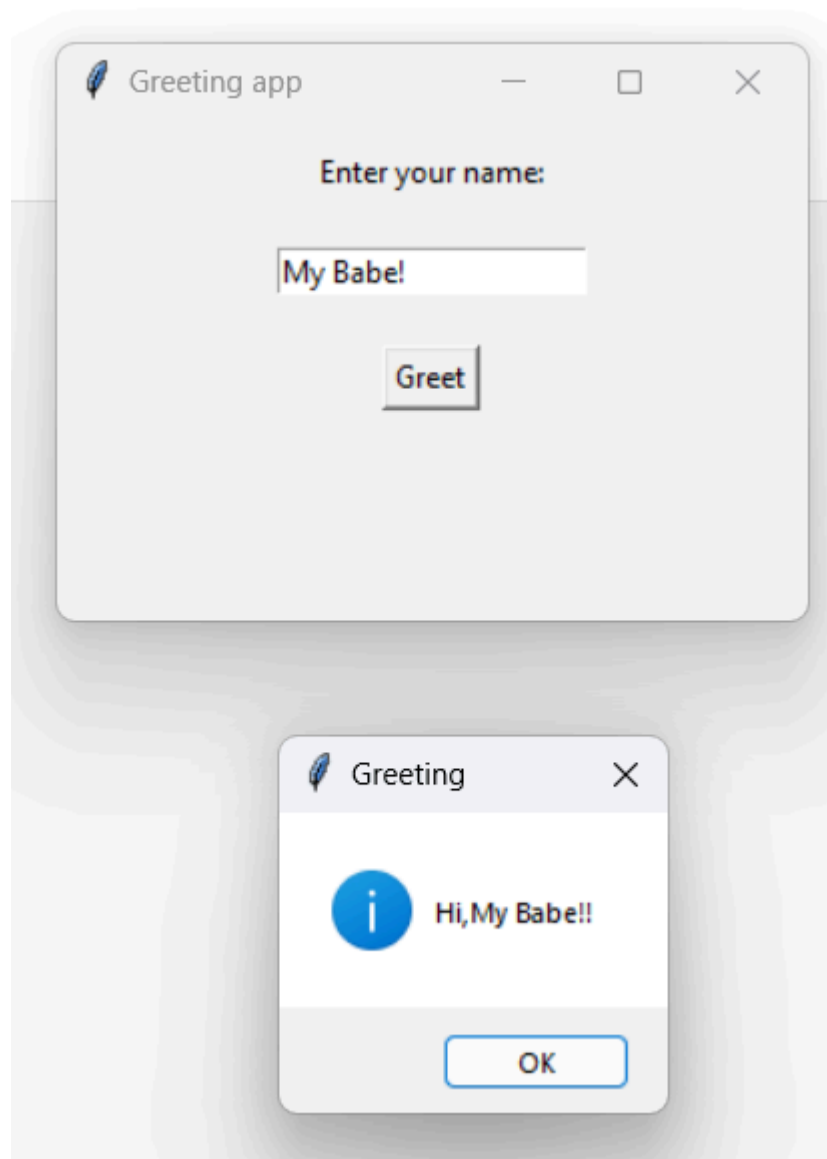
#Function to handle the greeting
def greet():
    name=name_entry.get()
    if name:
        messagebox.showinfo('Greeting',f'Hi,{name}!')
    else:
        messagebox.showwarning('Input Error','please enter your name.')

#Creating a Label
name_label=tk.Label(root,text='Enter your name:')
name_label.pack(pady=10)

#Creating an entry widget for name input
name_entry=tk.Entry(root)
name_entry.pack(pady=10)

#Creating a button to trigger the greeting
greet_button=tk.Button(root,text='Greet',command=greet)
greet_button.pack(pady=10)

#Run the Tkinter main loop
root.mainloop()
```



In [ ]: