Serrano, Mark Angelo
C203

7OOP

Finals task 4. Designing Tkinter GUI using OOP

Marsha Superio • Nov 13 (Edited Nov 13)

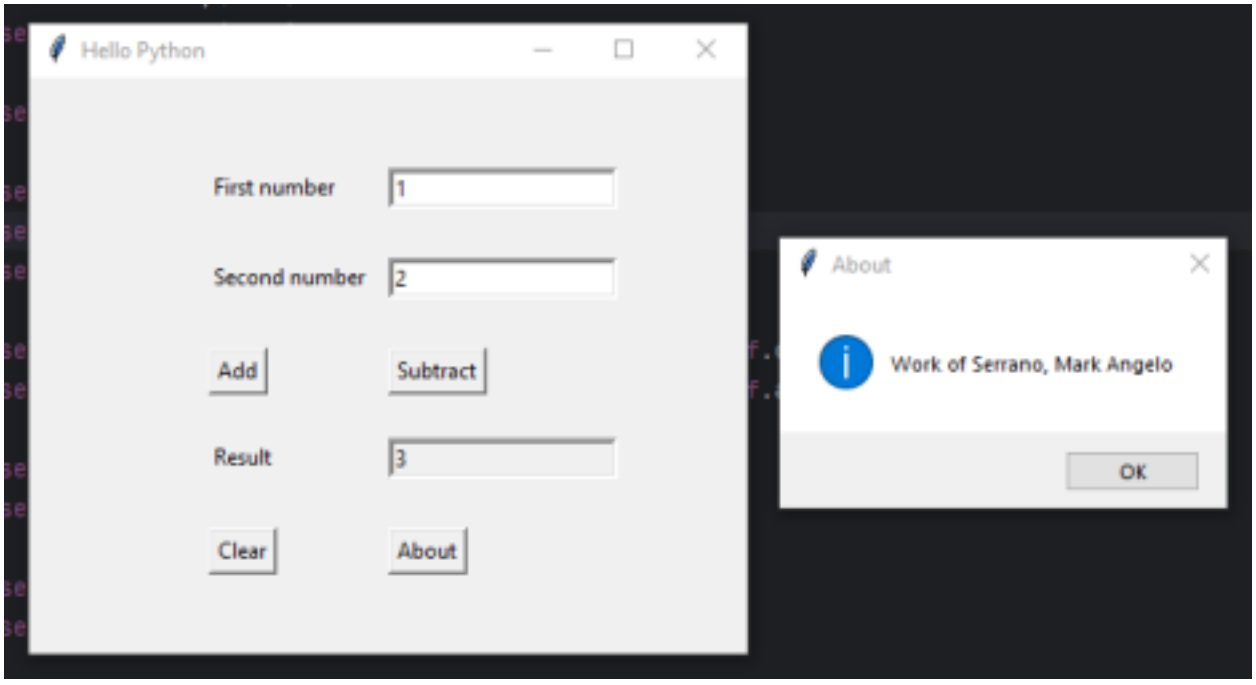
20 points

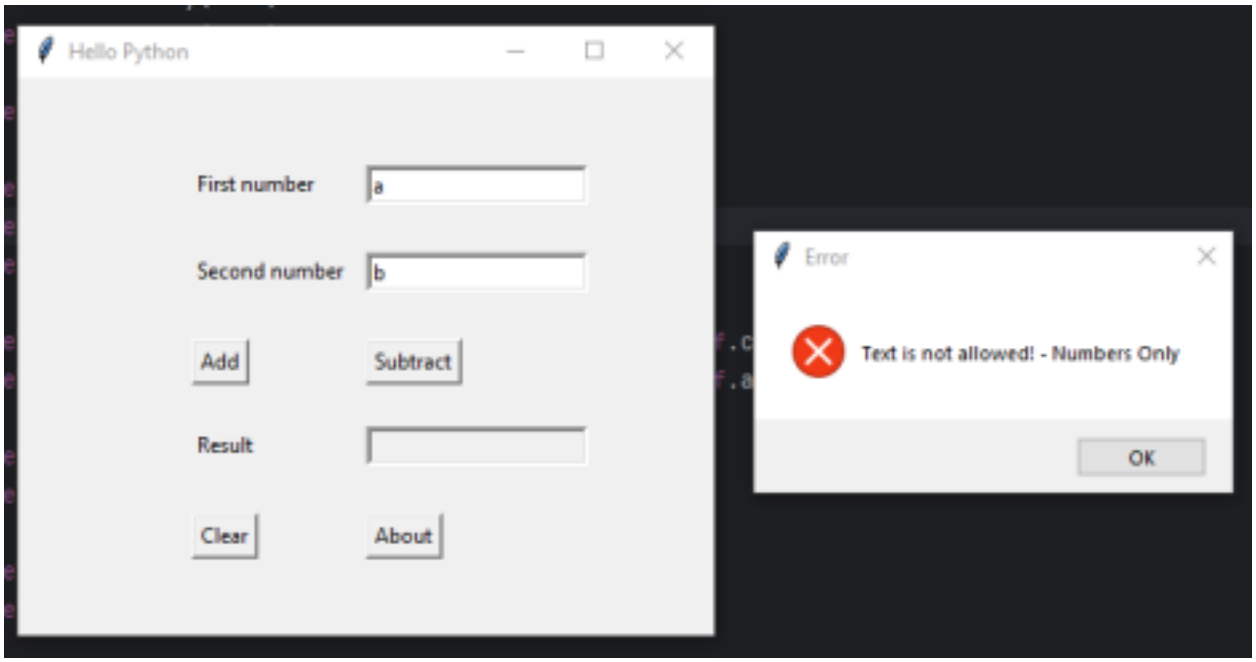
Due Tomorrow, 11:59 PM

INSTRUCTIONS:

0. See and download the attached code simpleCalc.py and understand its coding style (It is actually in OOP code form)
1. Modify the program and add the ff. functionality
   1.1 **CLEAR or RESET** button that will clear the contents of the entry field
   1.2 Add an **ABOUT button** to display a **Messagebox** that will display your name, i.e. "Work of your Name"
   1.3 Create a **VALIDATION CODE** (try-except block) that will prevent the USER from typing text entry and display the message "Text is not allowed! - Numbers Only"
   1.4 Make the Result text entry as **READONLY/VIEW** only

See attached code as guide.





Mangalo, Chriselle
C203

7OOP

```
from tkinter import *
from tkinter import messagebox

class MyWindow:
 def __init__(self, win):
 self.lbl1 = Label(win, text='First number')
 self.lbl2 = Label(win, text='Second number')
 self.lbl3 = Label(win, text='Result')

 self.t1 = Entry(bd=3)
 self.t2 = Entry(bd=3)

 self.t3 = Entry(bd=3, state="readonly")

 self.b1 = Button(win, text='Add', command=self.add)
self.b2 = Button(win, text='Subtract')
 self.b2.bind('<Button-1>', self.sub)

 self.b_clear = Button(win, text='Clear', command=self.clear_all)
self.b_about = Button(win, text='About', command=self.about_msg)

 self.lbl1.place(x=100, y=50)
 self.t1.place(x=200, y=50)

 self.lbl2.place(x=100, y=100)
 self.t2.place(x=200, y=100)

 self.b1.place(x=100, y=150)
 self.b2.place(x=200, y=150)

 self.lbl3.place(x=100, y=200)
 self.t3.place(x=200, y=200)

 self.b_clear.place(x=100, y=250)
 self.b_about.place(x=200, y=250)

 def add(self):
 try:
 num1 = int(self.t1.get())
 num2 = int(self.t2.get())
 result = num1 + num2
 self.show_result(result)
 except:
 messagebox.showerror("Error", "Text is not allowed! - Numbers  Only")

 def sub(self, event):
 try:
 num1 = int(self.t1.get())
 num2 = int(self.t2.get())
 result = num1 - num2
 self.show_result(result)
 except:
 messagebox.showerror("Error", "Text is not allowed! - Numbers  Only")
```

Mangalo, Chriselle

```
def show_result(self, value):
 self.t3.config(state="normal")
 self.t3.delete(0, 'end')
 self.t3.insert(END, str(value))
 self.t3.config(state="readonly")

 def clear_all(self):
 self.t1.delete(0, 'end')
 self.t2.delete(0, 'end')
 self.t3.config(state="normal")
 self.t3.delete(0, 'end')
 self.t3.config(state="readonly")

 def about_msg(self):
 messagebox.showinfo("About", "Work of Serrano, Mark Angelo")

if __name__ == '__main__':
 window = Tk()
 mywin = MyWindow(window)
 window.title('Hello Python')
 window.geometry("400x320+10+10")
 window.mainloop()
```