

Lab 8: GUI in Python

Objective(s)

- Create interactive interfaces in Python.

Tool(s)/Software

- Pycharm
- or
- IDLE (Python 3.10 or above)

Description

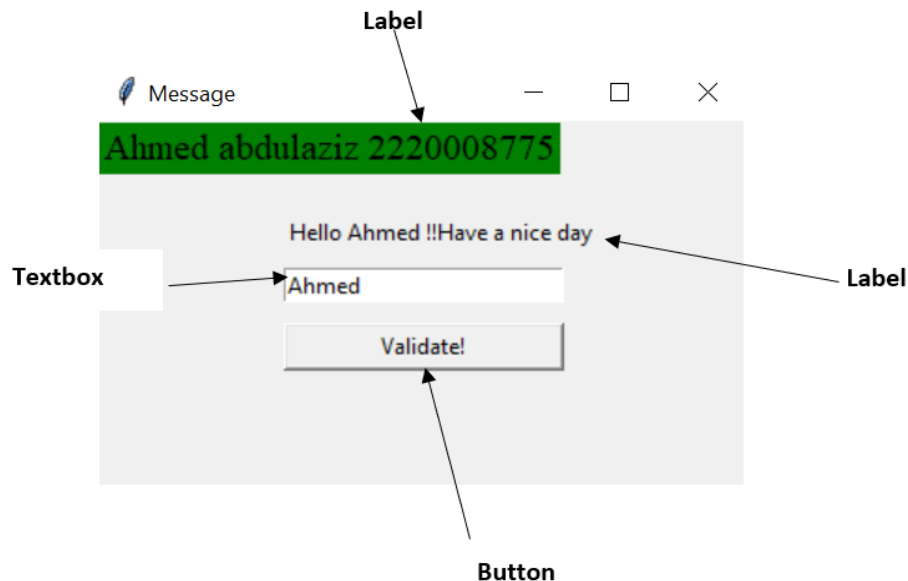
- Write python programs that solve the following problems:

Q1:

Write a Python GUI program to create a textbox, two labels and a button using Tkinter Library.

- ✓ On pressing Validate! Button, print the following text “**Hello Name! Have a nice day**” inside a label. The name is given by the user.
- ✓ The student’s name and ID are printed inside the top label. Set the attributes of the label as follow:
 - background color: green
 - Font color: Black
 - Font name: Times

Expected output:



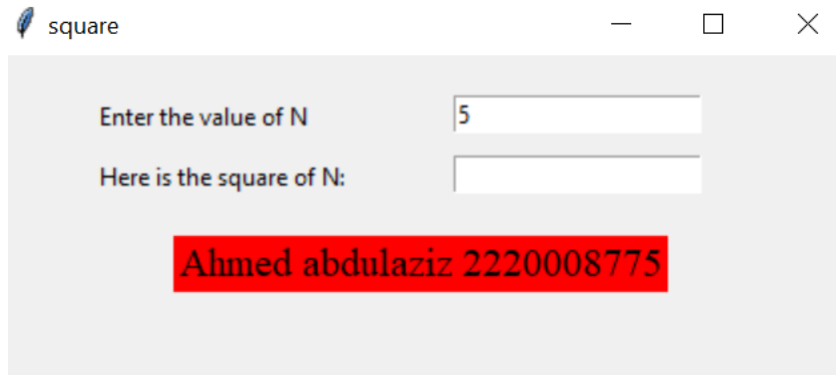
Q2:

Write a Python GUI program to create three labels and 2 textboxes using Tkinter Library.

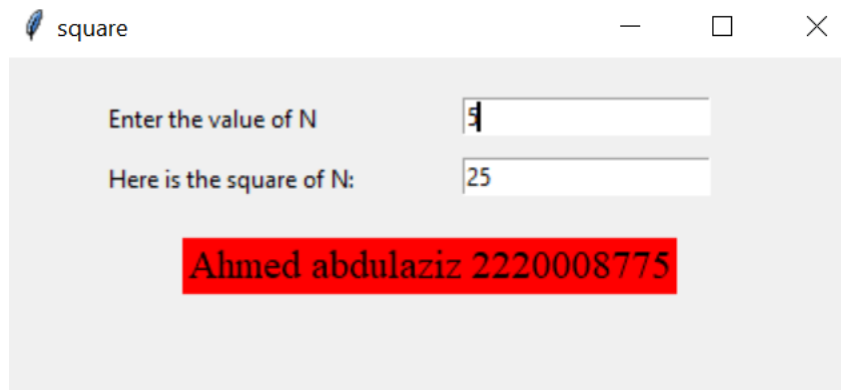
- ✓ Once the user gives a value of N and press the enter key, the square of N is given in the second textbox (See pictures).
- ✓ The student's name and ID are printed inside the label at the bottom of the Tkinter window. Set the attributes of the label as follow:
 - background color: red
 - Font color: Black
 - Font name: Times

Expected output:

Step 1: The user enters the value of N



Step 2: The Enter key is pressed and the square of N is displayed



Q3:

Write a Python GUI program to create three labels and 2 textboxes using Tkinter Library.

The student needs to implement a program to guess a **random integer between 1 and 10**. The player gives one try, if the number entered in the first textbox is the same as the number to guess, the player wins, and a message will be displayed in the second textbox(Bingo). Otherwise, the player loses, and a message will be displayed in the second textbox (you lost the game).

After the message is displayed, a label appears to print the random number that the player try to guess (see figures below).



Expected output:

tk

Enter your guess

The correct number:

tk

Enter your guess

The correct number:

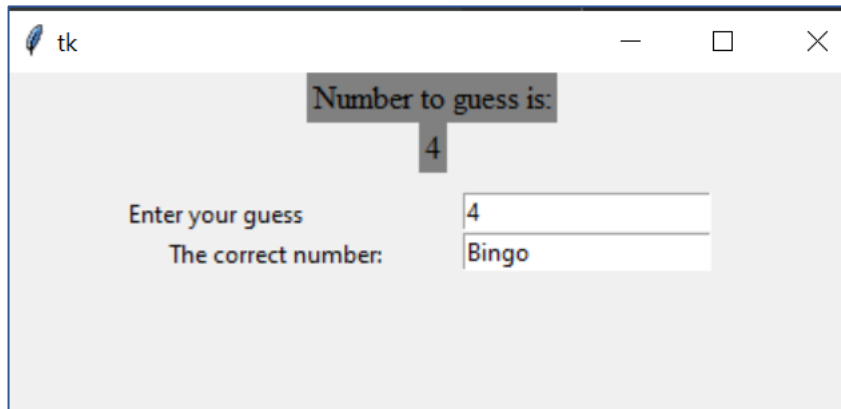
tk

Number to guess is:
4

Enter your guess

The correct number:

You lost the game



Deliverables

- Submit the files via blackboard. If blackboard is not working, send an email.
- No submissions or late submissions are penalized (from participation marks).
- Name the document Python_Lab8_StudentName_Q#
- You need to submit 3 files.