

## 7OOP FINALS LAB TASK 4 (PAIRED)

### I. PROBLEM

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Nov 15 (Edited Nov 22)

**FINALS PAIRED Task 1: DEMO Tkinter on Nov 22**

**Instructions:**

1. Make sure you have a partner to work with (See randomly generated pairs below)
2. You will be assigned a certain Tkinter Elements/Controls and present the ff:

**Discuss/Present the ff:**

1. What is the used or **purpose of the widget or layout manager or container**
2. What are the methods that you can use to change the look and settings of the widget or control and present the syntax

\*Explore more, do not just settle on the simple examples in the lecture i gave you

3. DEMO the code and mapped the output to the code that you did.

### II. SOURCE CODE

```
try-except.py x
1  from tkinter import *
2  import re # for email pattern checking
3
4  def submit_form():
5      username = username_entry.get()
6      email = email_entry.get()
7      password = password_entry.get()
8
9      try:
10          # 1. Validate empty fields
11          if username == "" or email == "" or password == "":
12              raise ValueError("All fields must be filled.")
13
14          # 2. Validate email format using regex
15          email_pattern = r"[\w\.-]+@[^\w\.-]+\.\w{2,3}"
16          if not re.match(email_pattern, email):
17              raise ValueError("Invalid email format.")
18
19          # If all validations pass:
20          result.config(text="Form submitted successfully!", fg="green")
21
22      except ValueError as error:
23          result.config(text=str(error), fg="red")
24
25
26  root = Tk()
27  root.title("User Entry Form")
28
29  # --- Username ---
30  Label(root, text="Username:").pack()
31  username_entry = Entry(root, width=30)
32  username_entry.pack()
33
34  # --- Email ---
35  Label(root, text="Email:").pack()
36  email_entry = Entry(root, width=30)
37  email_entry.pack()
38
39  # --- Password ---
40  Label(root, text="Password:").pack()
41  password_entry = Entry(root, width=30, show="*")
42  password_entry.pack()
43
44  # --- Submit Button ---
45  Button(root, text="Submit", command=submit_form).pack(pady=10)
46
47  # --- Result Message ---
48  result = Label(root, text="")
49  result.pack()
50
51  root.mainloop()
```

### III. SAMPLE OUTPUT

The screenshot shows a "User Entry Form" window with a red header bar. The form contains three text input fields: "Username" (Cabenta), "Email" (jcabenta24-0152@cca.edu.ph), and "Password" (\*\*\*\*\*). A "Submit" button is located below the password field. At the bottom of the window, a green message states "Form submitted successfully!".

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