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PYTHON LAB 10

Q1

```
tkinterformval.py > ...
1  import tkinter as tk
2  import re
3  def validate_name(name):
4      name_pattern = r"^[A-Za-z\s]+$"
5      return re.match(name_pattern, name)
6  def validate_email(email):
7      email_pattern = r"^\w+@[a-zA-Z_]+?\.[a-zA-Z]{2,3}$"
8      return re.match(email_pattern, email)
9  def validate_phone(phone):
10     phone_pattern = r"^\d{10}$"
11     return re.match(phone_pattern, phone)
12 def submit_form():
13     name = name_entry.get()
14     email = email_entry.get()
15     phone = phone_entry.get()
16     gender = gender_var.get()
17     year_of_birth = year_of_birth_spinbox.get()
18     if not validate_name(name):
19         result_label.config(text="Invalid Name")
20     elif not validate_email(email):
21         result_label.config(text="Invalid Email")
22     elif not validate_phone(phone):
23         result_label.config(text="Invalid Phone")
24     else:
25         result_label.config(text="Form Submitted")
26
27 window = tk.Tk()
28 window.title("Job Portal Form")
29 name_label = tk.Label(window, text="Name:")
30 name_label.pack()
31 name_entry = tk.Entry(window)
32 name_entry.pack()
33 email_label = tk.Label(window, text="Email:")
34 email_label.pack()
35 email_entry = tk.Entry(window)
36 email_entry.pack()
37 phone_label = tk.Label(window, text="Phone:")
38 phone_label.pack()
39 phone_entry = tk.Entry(window)
```

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40 phone_entry.pack()
41 gender_label = tk.Label(window, text="Gender:")
42 gender_label.pack()
43 gender_var = tk.StringVar()
44 gender_dropdown = tk.OptionMenu(window, gender_var, "Male", "Female", "Other")
45 gender_dropdown.pack()
46 dob_label = tk.Label(window, text="Year of Birth:")
47 dob_label.pack()
48 year_of_birth_spinbox = tk.Spinbox(window, from_=1900, to=2023)
49 year_of_birth_spinbox.pack()
50 submit_button = tk.Button(window, text="Submit", command=submit_form)
51 submit_button.pack()
52 result_label = tk.Label(window, text="", fg="red")
53 result_label.pack()
54 window.mainloop()
55
```

The screenshot shows a Tkinter window titled "Job Portal Form". The window contains a form with the following elements:

- Name:** A text input field.
- Email:** A text input field.
- Phone:** A text input field.
- Gender:** A dropdown menu with a small arrow icon on the right.
- Year of Birth:** A spinbox with a value of "1900" and up/down arrow icons.
- Submit:** A button.

The form is centered on a light gray background. The window has a standard macOS-style title bar with a close button (X) on the right.