PYTHON LAB 10

Q1

```python
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)
```

```
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
```