## **Problem Statement:**

Design an Examination Registration Desk using Tkinter and connect it to a database. The system should allow students to register for upcoming exams by providing their personal details, selecting the exam they wish to appear for. The system should also allow administrators to view and manage the registered students' data and exam details.

## Code:

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import tkinter as tk
from tkinter import Label, Photolmage, messagebox
import re
import pymysql
mydb = pymysql.connect(
 host="localhost",
 user="root",
 password="",
 database="student"
)
root = tk.Tk()
root.title("Examination Registration Form")
root.geometry("450x700")
balmage=PhotoImage(file='ba.png')
bgLabel=Label(root,image=bgImage,bd=5,width=1500, height= 800)
bgLabel.place(x=0,y=0)
frame = tk.Frame(root)
fname_label = tk.Label(frame, text="First Name:")
fname_entry = tk.Entry(frame, width = '30')
lname_label = tk.Label(frame, text="Last Name:")
lname_entry = tk.Entry(frame,width = '30')
email_label = tk.Label(frame, text="Email:")
email_entry = tk.Entry(frame,width = '30')
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phone_label = tk.Label(frame, text="Phone No:")
phone_entry = tk.Entry(frame,width = '30')
city_label = tk.Label(frame, text="City:")
city_entry = tk.Entry(frame,width = '30')
state_label = tk.Label(frame, text="State:")
state_entry = tk.Entry(frame,width = '30')
country_label = tk.Label(frame, text="Country:")
country_entry = tk.Entry(frame,width = '30')
pincode_label = tk.Label(frame, text="Pin Code:")
pincode_entry = tk.Entry(frame,width = '30')
aadhar_label = tk.Label(frame, text="Aadhar No:")
aadhar_entry = tk.Entry(frame,width = '30')
gender_type_label = tk.Label(frame, text="Gender:")
gender_type_var = tk.StringVar(value="Male")
gender_type_male = tk.Radiobutton(frame, text="Male",
variable=gender_type_var, value="Male")
gender_type_female = tk.Radiobutton(frame, text="Female",
variable=gender_type_var, value="Female")
gender_type_others = tk.Radiobutton(frame, text="Others",
variable=gender_type_var, value="Others")
course_label = tk.Label(frame, text="Highest Qualification:")
course_entry = tk.Entry(frame,width = '30')
date_label = tk.Label(frame, text="Exam Date and Time:")
date_options = ["April 10, 9:00 AM", "April 10, 2:00 PM", "April 11, 9:00 AM", "April 11,
2:00 PM"]
date_var = tk.StringVar(value=date_options[0])
date_menu = tk.OptionMenu(frame, date_var, *date_options)
exam_type_label = tk.Label(frame, text="Exam Type:")
exam_type_var = tk.StringVar(value="Online")
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variable=exam_type_var, value="Online")
exam_type_inperson = tk.Radiobutton(frame, text="Offline",
variable=exam_type_var, value="Offline")
password_label = tk.Label(frame, text="Set Password:")
password_entry = tk.Entry(frame, show="*")
confirm_password_label = tk.Label(frame, text="Confirm Password:")
confirm_password_entry = tk.Entry(frame, show="*")
fname_label.grid(row=0, column=0, padx=5, pady=5)
fname_entry.grid(row=0, column=1, padx=5, pady=5)
lname_label.grid(row=1, column=0, padx=5, pady=5)
lname_entry.grid(row=1, column=1, padx=5, pady=5)
email_label.grid(row=2, column=0, padx=5, pady=5)
email_entry.grid(row=2, column=1, padx=5, pady=5)
phone_label.grid(row=3, column=0, padx=5, pady=5)
phone_entry.grid(row=3, column=1, padx=5, pady=5)
city_label.grid(row=4, column=0, padx=5, pady=5)
city_entry.grid(row=4, column=1, padx=5, pady=5)
state_label.grid(row=5, column=0, padx=5, pady=5)
state_entry.grid(row=5, column=1, padx=5, pady=5)
country_label.grid(row=6, column=0, padx=5, pady=5)
country_entry.grid(row=6, column=1, padx=5, pady=5)
pincode_label.grid(row=7, column=0, padx=5, pady=5)
pincode_entry.grid(row=7, column=1, padx=5, pady=5)
aadhar_label.grid(row=8, column=0, padx=5, pady=5)
aadhar_entry.grid(row=8, column=1, padx=5, pady=5)
gender_type_label.grid(row=9, column=0, padx=5, pady=5)
gender_type_male.grid(row=9, column=1, padx=5, pady=5)
```

exam\_type\_online = tk.Radiobutton(frame, text="Online",

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gender_type_female.grid(row=10, column=1, padx=5, pady=5)
gender_type_others.grid(row=11, column=1, padx=5, pady=5)
course_label.grid(row=12, column=0, padx=5, pady=5)
course_entry.grid(row=12, column=1, padx=5, pady=5)
date_label.grid(row=13, column=0, padx=5, pady=5)
date_menu.grid(row=13, column=1, padx=5, pady=5)
exam_type_label.grid(row=14, column=0, padx=5, pady=5)
exam_type_online.grid(row=15, column=0, padx=5, pady=5)
exam_type_inperson.grid(row=15, column=1, padx=5, pady=5)
password_label.grid(row=16, column=0, padx=5, pady=5)
password_entry.grid(row=16, column=1, padx=5, pady=5)
confirm_password_label.grid(row=17, column=0, padx=5, pady=5)
confirm_password_entry.grid(row=17, column=1, padx=5, pady=5)
terms_var = tk.BooleanVar()
terms_checkbox = tk.Checkbutton(frame, text="I agree to the Terms and
Conditions", variable=terms_var)
terms_checkbox.grid(row=18, column=0, columnspan=2, padx=5, pady=5)
def validate_form():
  if not fname_entry.get() or not lname_entry.get() or not email_entry.get() or
not phone_entry.get() or not city_entry.get() or not state_entry.get() or not
country_entry.get() or not pincode_entry.get() or not aadhar_entry.get() or
not gender_type_var.get() or not course_entry.get() or not
password_entry.get() or not confirm_password_entry.get():
    messagebox.showerror("Error", "Please fill all the fields.")
  elif not re.match(r"[^{\circ}]+^{\circ}]+^{\circ}, email_entry.get()):
    messagebox.showerror("Error", "Invalid email address.")
  elif not re.match(r"[0-9]{10}", phone_entry.get()):
    messagebox.showerror("Error", "Invalid phone number.")
  elif not re.match(r"[0-9]{12}", aadhar_entry.get()):
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messagebox.showerror("Error", "Invalid Aadhar number.")
  elif password_entry.get()!= confirm_password_entry.get():
    messagebox.showerror("Error", "Passwords do not match.")
  elif not terms_var.get():
    messagebox.showerror("Error", "Please agree to the Terms and
Conditions.")
  else:
    cursor = mydb.cursor()
    cursor.execute("INSERT INTO users values("+fname_entry.get()+",
""+lname_entry.get()+"",""+email_entry.get()+"",""+phone_entry.get()+"",
"+city_entry.get()+", "+state_entry.get()+",
"'+country_entry.get()+"","'+pincode_entry.get()+"","+aadhar_entry.get()+"","+gend
er_type_var.get()+", "+course_entry.get()+",
""+date_var.get()+"",""+exam_type_var.get()+"",""+password_entry.get()+"")" )
    mydb.commit()
    messagebox.showinfo("Success", "Form submitted successfully.")
    print("Name:", fname_entry.get(), lname_entry.get())
    print("Email:", email_entry.get())
    print("Phone:", phone_entry.get())
    print("Address:", city_entry.get(),",", state_entry.get(),",",
country_entry.get(),"-",pincode_entry.get())
    print("Aadhar No:", aadhar_entry.get())
    print("Gender:", gender_type_var.get())
    print("Course:", course_entry.get())
    print("Exam Date and Time:", date_var.get())
    print("Exam Type:", exam_type_var.get())
    print("Password:", password_entry.get())
    fname_entry.delete(0, tk.END)
    lname_entry.delete(0, tk.END)
    email_entry.delete(0, tk.END)
    phone_entry.delete(0, tk.END)
    city_entry.delete(0, tk.END)
    state_entry.delete(0, tk.END)
    country_entry.delete(0, tk.END)
```

```
aadhar_entry.delete(0, tk.END)
pincode_entry.delete(0, tk.END)
course_entry.delete(0, tk.END)
password_entry.delete(0, tk.END)
confirm_password_entry.delete(0, tk.END)
```

submit\_button = tk.Button(frame, text="Submit", command=validate\_form) submit\_button.grid(row=19, column=0, columnspan=2, padx=5, pady=5) frame.pack(padx=20, pady=20) root.mainloop()

## **Output:**

Examination Registration Form		_ ×
First Name:		
Last Name:		
Email:		
Phone No:		
City:		
State:		
Country:		
Pin Code:		
Aadhar No:		
Gender:		
	C Female	
	C Others	
Highest Qualification:		
Exam Date and Time:	April 10, 9:00 AM 🔟	
Exam Type:		
<ul><li>Online</li></ul>	C Offline	
Set Password:		
Confirm Password:		
☐ I agree to the Terms and Conditions		
	Submit	









