

# Simple Registration Form Using Tkinter

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**Task-1:** Simple Registration Form Using Tkinter in Python

**Abstract:** This project aims to develop a simple registration form using Tkinter, a standard GUI toolkit in Python. The registration form will include basic fields such as name, email, password, and a submit button. Tkinter provides an intuitive way to create graphical interfaces, making it suitable for beginners and small-scale projects. The form will validate user inputs, ensuring that required fields are filled and the email follows a standard format. Upon successful submission, the entered information will be stored or processed as desired. This project serves as an introductory exercise to GUI programming in Python and demonstrates how Tkinter can be utilized to create interactive forms for various applications.

**Keywords:** Tkinter- Tool Kit Interface

GUI - Graphical User Interface

**Steps that I followed:**

1. Creating main window
2. Title and Geometry of window
3. Creating Labels for entry fields
4. Geometric alignment and packing
5. Creating Entry fields
6. Dropdown menu and Check Box and Radio Button
7. Submit button and On Click Function
8. Getting entered Data
9. Message boxes, Warning and Error
10. Data storing in Excel file

**Step 1 : Creating main Window**

#code

```
import tkinter as tk
```

```
window = tk.Tk()
```

```
window.mainloop()
```

## **Step 2 : Title and Geometry of window**

#code

```
Window.title("Simple Registration Form")
```

```
Window.geometry("300x500")
```

## **Step 3 : Creating Labels for Entry fields**

#code

```
Name_label = tk.Label(window, text="Name:")
```

```
Email_label = tk.Label(window, text="Email:")
```

```
Ph_no_label = tk.Label(window, text="Phone Number:")
```

```
College_label = tk.Label(window, text="College:")
```

```
Id_no_label = tk.Label(window, text="ID Number:")
```

## **Step 4 : Geometry alignment and packing**

#code

```
Name_label.grid(row=0, column=0, padx=10, pady=10)
```

```
Email_label.grid(row=1, column=0, padx=10, pady=10)
```

```
Ph_no_label.grid(row=2, column=0, padx=10, pady=10)
```

```
College_label.grid(row=3, column=0, padx=10, pady=10)
```

```
Id_no_label.grid(row=4, column=0, padx=10, pady=10)
```

## **Step 5 : Creating Entry Fields**

#code

```
Name_entry = tk.Entry(window)
```

```
Email_entry = tk.Entry(window)
```

```
Ph_no_entry = tk.Entry(window)
```

```
College_entry = tk.Entry(window)
```

```
Id_no_entry = tk.Entry(window)
```

#packing

```
Name_entry.grid(row=0, column=1, padx=10, pady=10)
```

```
Email_Entry.grid(row=1, column=1, padx=10, pady=10)
```

```
Ph_no_Entry.grid(row=2, column=1, padx=10, pady=10)
```

```
College_Entry.grid(row=3, column=1, padx=10, pady=10)
```

```
Id_no_Entry.grid(row=4, column=1, padx=10, pady=10)
```

### **Step 6 : Dropdown menu and Check Box and Radio Button**

```
#code
```

```
#dropdown menu
```

```
from tkinter import ttk
```

```
Year_entry = ttk.Combobox(window, values=["1st", "2nd", "3rd", "4th"])
```

```
Branch_entry = ttk.Combobox(window, values=["ECE", "CSE", "CIVIL", "MECH"])
```

```
#label and packing
```

```
Year_label = tk.Label(window, text="Year:")
```

```
Year_label.grid(row=5, column=0, padx=10, pady=10)
```

```
Year_entry.grid(row=5, column=1, padx=10, pady=10)
```

```
Branch_label(window, text="Branch")
```

```
Branch_label.grid(row=6, column=0, padx=10, pady=10)
```

```
Branch_entry.grid(row=6, column=1, padx=10, pady=10)
```

```
#check box
```

```
Check_value = tk.Intvar() #on value= 1, off value=0
```

```
Check_box = ttk.Checkbutton(window, text="Agree TC ", variable=Check_value)
```

```
Check_box.grid(row=7, column=1, padx=10, pady=10)
```

```
#Radio Button
```

```
g=tk.StringVar()
```

```
gender_label=tk.Label(text="Gender:")
```

```
gender_label.grid(row=2,column=0,padx=10,pady=10)
```

```
gender_entry_m=ttk.Radiobutton(text="Male",value="male",variable=g)
```

```
gender_entry_m.grid(row=2,column=1)
```

```
gender_entry_f=ttk.Radiobutton(text="Female",value="female",variable=g)
```

```
gender_entry_f.grid(row=3,column=1)
```

### **Step 7 : Submit button and On click function**

#code

#On Click Funtion

```
def On_click():  
    print("registration successful")
```

#submit button

```
Submit_button = tk.Button(text="Submit", command=On_click)
```

```
Submt_button.grid(row=8, column=1, padx=10, pady=10)
```

### **Step 8 : Getting entered Data**

#code

```
def On_click() :  
    Name = Name_entry.get()  
    Email = Email_entry.get()  
    Ph_no = Ph_no_entry.get()  
    College = College_entry.get()  
    ID_no = Id_no_entry.get()  
    Year = Year_entry.get()  
    Branch = Branch_entry.get()  
    Check = Check_value.get()  
  
    Print("Name:{}\n Email:{}\nPh_no:{} \n College:{} \n ID:{} \n Year:{} Branch:{}  
        check:{}".format(Name,Email,Ph_no,College,ID_no,Year,Branch,Check))
```

### **Step 9 : Message boxes, Warning and Error**

#code

```
from tkinter import messagebox
```

```
if Name and Email and Ph_no and College and ID_no and Year and Branch and Check==1 :
```

```

        messagebox.showinfo("Submitted", "Name:{}\n Email:{}\n Ph_no:{} \n College:{} \n
ID:{}\n Year:{}\n Branch:{}\n check:{}".format (Name,Email,Ph_no,College, ID_no,
Year,Branch,Check))

        if "@" not in Email :

            messagebox.showerror("error", "email incorrect")

    else :

        messagebox.showwarning("Warning", "Fill all the entries")

```

### Step 10 : Data Storing in Excel file

```

#code

Import openpyxl

From openpyxl import load_workbook

File_path = r" Book1.xlsx"

# please create excel file and copy excel file path and paste after r

A= openpyxl.load_workbook(file_path)

B= A["Sheet1"]                #Sheet1 is name of the sheet in excel

B.append(Name,Email,Ph_no,College,year,branch,check)

A.save(file_path)

```

### #Password Block : (additional)

```

#code

Password_entry = tk.Entry(window, show="*")

Password_entry.pack()

```

### #Spinbox :

```

#code

age_label=tk.Label(text="Age:")
age_label.grid(row=4,column=0,padx=10,pady=10)
age_entry=tk.Spinbox(from_=15,to=25)
age_entry.grid(row=4,column=1)

```

## SIMPLE REGISTRATION FORM CODE:

```
import tkinter as tk
from tkinter import ttk,messagebox
import openpyxl
from openpyxl import load_workbook

window = tk.Tk()
window.title("Simple Registration form")
window.geometry("300x500")

file_path=r"Book1.xlsx"
a=openpyxl.load_workbook(file_path)
b=a["Sheet1"]

def on_click():
    name=name_entry.get()
    email=email_entry.get()
    age=age_entry.get()
    gender=g.get()
    id=id_entry.get()
    ph=ph_entry.get()
    year=year_entry.get()
    branch=branch_entry.get()
    agree=val.get()

    if name and email and id and ph and year and branch and agree and
gender and age:
        if "@" not in email:
            messagebox.showerror("error", "email incorrect")
        else :

messagebox.showinfo("submitted","name:{}\nemail:{}\nGender:{}\nage:{}\nid:{}
\nph:{}\nyear:{}\nbranch:{}\nagree:{}".format(name,email,gender,age,id,ph,
year,branch,agree))
        b.append([name,email,gender,age,id,ph,year,branch,agree])
        a.save(file_path)

    else:
        messagebox.showwarning("warning","fill all the entries")

name_label=tk.Label(text="Name:")
name_label.grid(row=0,column=0,padx=10,pady=10)
name_entry=tk.Entry()
name_entry.grid(row=0,column=1)

email_label=tk.Label(text="Email:")
email_label.grid(row=1,column=0,padx=10,pady=10)
email_entry=tk.Entry()
email_entry.grid(row=1,column=1)

g=tk.StringVar()
gender_label=tk.Label(text="Gender:")
gender_label.grid(row=2,column=0,padx=10,pady=10)
gender_entry_m=ttk.Radiobutton(text="Male",value="male",variable=g)
gender_entry_m.grid(row=2,column=1)
gender_entry_f=ttk.Radiobutton(text="Female",value="female",variable=g)
gender_entry_f.grid(row=3,column=1)
```

```
age_label=tk.Label(text="Age:")
age_label.grid(row=4,column=0,padx=10,pady=10)
age_entry=tk.Spinbox(from_=15,to=25)
age_entry.grid(row=4,column=1)

ph_label=tk.Label(text="Ph Number:")
ph_label.grid(row=5,column=0,padx=10,pady=10)
ph_entry=tk.Entry()
ph_entry.grid(row=5,column=1)

id_label=tk.Label(text="ID Number:")
id_label.grid(row=6,column=0,padx=10,pady=10)
id_entry=tk.Entry()
id_entry.grid(row=6,column=1)

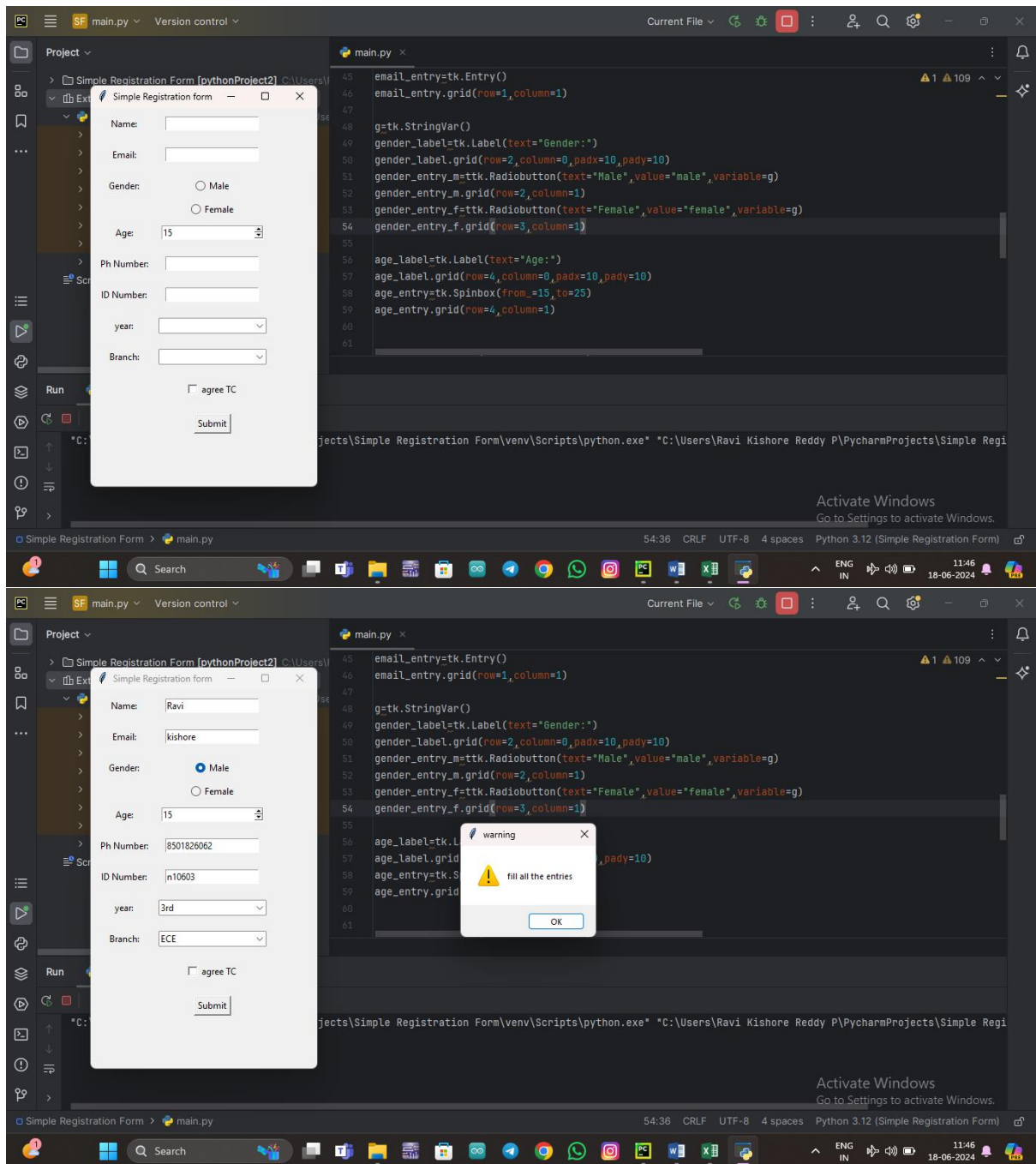
year_label=tk.Label(text="year:")
year_label.grid(row=7,column=0,padx=10,pady=10)
year_entry= ttk.Combobox(values=["1st", "2nd", "3rd", "4th"])
year_entry.grid(row=7,column=1)

branch_label=tk.Label(text="Branch:")
branch_label.grid(row=8,column=0,padx=10,pady=10)
branch_entry= ttk.Combobox(values=["ECE", "CSE", "CIVIL", "MECH", "EEE"])
branch_entry.grid(row=8,column=1)

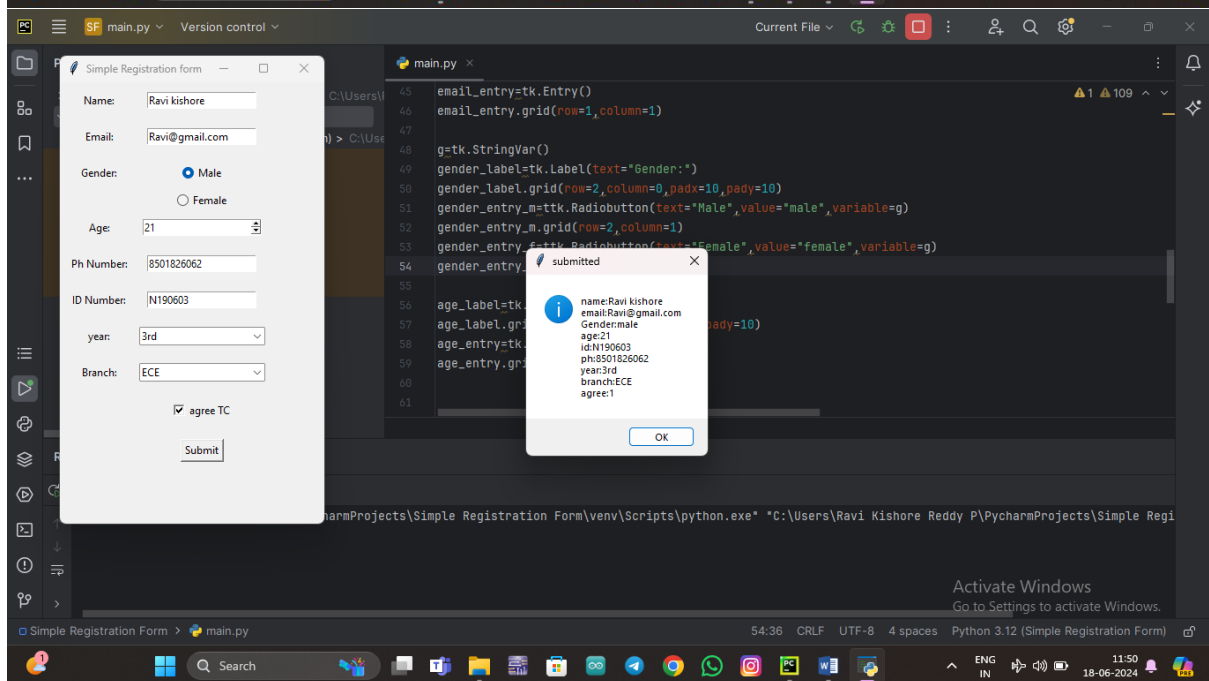
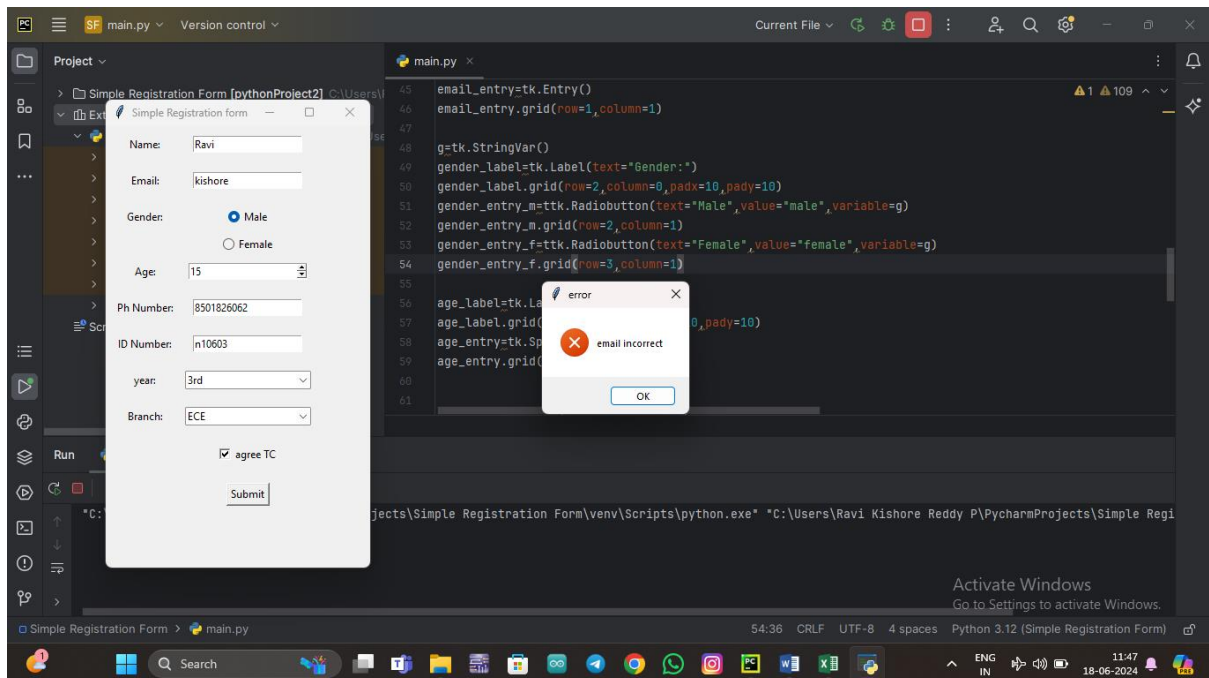
val=tk.IntVar()
agree_entry =tk.Checkbutton(text="agree TC",variable=val)
agree_entry.grid(row=9,column=1,padx=10,pady=10)

submit = tk.Button(text="Submit",command=on_click)
submit.grid(row=10,column=1,padx=10,pady=10)

window.mainloop()
```







main.py Version control

Project

main.py

Simple Registration form

Name: P Ravi kishore reddy

Email: n190603@rguktn.ac.in

ID Number: N190603

Ph Number: 8501826062

year: 3rd

Branch: ECE

☒ agree TC

Submit

```
45 id_label.grid(row=2,column=0,p
46 id_entry=tk.Entry()
47 id_entry.grid(row=2,column=1)
48
49 ph_label=tk.Label(text="Ph Num
50 ph_label.grid(row=3,column=0,p
51 ph_entry=tk.Entry()
52 ph_entry.grid(row=3,column=1)
53
54 year_label=tk.Label(text="year
55 year_label.grid(row=4,column=0,p
56 year_entry= ttk.Combobox(value
57 year_entry.grid(row=4,column=1)
58
59 branch_label=tk.Label(text="Br
60 branch_label.grid(row=5,column=0,p
61 branch_entry= ttk.Combobox(value
```

File "C:\Python\_object\Lib\zipfile\\_\_init\_\_.py", line 1320, in \_\_init\_\_  
self.fp = io.open(file, filemode)  
PermissionError: [Errno 13] Permission denied: 'C:\\Users\\Ravi Kishore Reddy P\\PycharmProjects\\pythonProject2\\Book1.xlsx'

pythonProject2 > main.py

46:19 CRLF UTF-8 4 spaces Python 3.12 (pythonProject2)

Book1 - Excel (Pro...)

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Sheet1

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	A	B	C	D	E	F	G
10	P Ravi kish	n190603rg	N190603	850182606	3rd	ECE	1
11	P Ravi kish	n190603@N190603	N190603	850182606	3rd	ECE	1
12	P Ravi kish	n190603@N190603	N190603	850182606	3rd	ECE	1
13	P Ravi kish	n190603@N190603	N190603	850182606	3rd	ECE	1
14							
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Sheet1

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