

Vidyavardhini's College of Engineering & Technology Department of Computer Engineering

Experiment No. 7

Creating GUI with python containing widgets such as labels, textbox, radio, checkboxes and custom dialog boxes

Date of Performance:

Date of Submission:



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Department of Computer Engineering

Experiment No. 7

Title: Creating GUI with python containing widgets such as labels, textbox, radio, checkboxes and custom dialog boxes

Aim: To study and create GUI with python containing widgets such as labels, textbox, radio, checkboxes and custom dialog boxes

Objective: To introduce GUI, TKinter in python

Theory:

Python offers multiple options for developing GUI (Graphical User Interface). Out of all the GUI methods, tkinter is the most commonly used method. It is a standard Python interface to the Tk GUI toolkit shipped with Python. Python with tkinter is the fastest and easiest way to create the GUI applications. Creating a GUI using tkinter is an easy task.

To create a tkinter app:

Importing the module - tkinter

Create the main window (container)

Add any number of widgets to the main window

Apply the event Trigger on the widgets.

Importing tkinter is same as importing any other module in the Python code. Note that the name of the module in Python 2.x is 'Tkinter' and in Python 3.x it is 'tkinter'.

Code:

```
from tkinter import *
from tkinter import messagebox
def clear fields():
    entry name.delete(0, END)
```



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```
entry email.delete(0, END)
    entry course.delete(0, END)
    entry semester.delete(0, END)
    entry contact.delete(0, END)
def show dialog():
   messagebox.showinfo("Success", "Registration successful!")
base = Tk()
base.title("Registration Form")
base.geometry("400x350")
label name = Label(base, text="Name:")
label email = Label(base, text="Email:")
label_course = Label(base, text="Course:")
label semester = Label(base, text="Semester:")
label contact = Label(base, text="Contact Number:")
entry name = Entry(base)
entry email = Entry(base)
entry course = Entry(base)
entry semester = Entry(base)
entry_contact = Entry(base)
gender var = IntVar()
radio male = Radiobutton(base, text="Male", variable=gender var,
value=1)
```



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```
radio_female = Radiobutton(base, text="Female", variable=gender_var,
value=2)
check terms = Checkbutton(base, text="I agree to the terms and
conditions")
button submit = Button(base, text="Submit", command=show dialog)
button clear = Button(base, text="Clear", command=clear fields)
label name.grid(row=0, column=0, padx=10, pady=5)
entry name.grid(row=0, column=1, padx=10, pady=5)
label email.grid(row=1, column=0, padx=10, pady=5)
entry email.grid(row=1, column=1, padx=10, pady=5)
label course.grid(row=2, column=0, padx=10, pady=5)
entry course.grid(row=2, column=1, padx=10, pady=5)
label semester.grid(row=3, column=0, padx=10, pady=5)
entry semester.grid(row=3, column=1, padx=10, pady=5)
label contact.grid(row=4, column=0, padx=10, pady=5)
entry contact.grid(row=4, column=1, padx=10, pady=5)
radio male.grid(row=5, column=0, padx=10, pady=5)
radio female.grid(row=5, column=1, padx=10, pady=5)
```



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check_terms.grid(row=6, columnspan=2, padx=10, pady=5)

button_submit.grid(row=7, columnspan=2, padx=10, pady=10)
button_clear.grid(row=8, columnspan=2, padx=10, pady=5)

base.mainloop()

Output:

Registration Form	1	_		×
Name:	rrgrg			
Email:	gdgrgegeth@.com			
Course:	comps			
Semester:	4th			
Contact Number:	2126789797			
Male	C Female			
✓ I agree to the terms and conditions				
Submit				
Clear				

Conclusion:

GUI package TKinter has been studied and implemented.