**24.How to create GUI with python?**

**Objective:**

* To create basic GUI with python3.

**Process:**

* **Tkinter:**

Python offers multiple options for developing GUI.

Out of all the GUI methods, tkinter is most commonly used method. It is a standard Python interface to the Tk GUI toolkit shipped with Python.

Python with tkinter outputs the fastest and easiest way to create the GUI applications.

* **To create a tkinter:**

import tkinter

Create the GUI application main window.

Add the widgets.

Enter the main event loop.

**Input:**

* Menu, radio button and user entry widgets.

**Output:**

* New GUI window having above mentioned widgets.

**Source code(Main loop):**

#import tkinter

import tkinter

#GUI main window container

top = tkinter.Tk()

#Trigger for container

top.mainloop()

**##########(Menu widget):**

import tkinter

#create main window

top = tkinter.Tk()

#menu button

mb = Menubutton ( top, text = "courses", relief = RAISED )

mb.grid()

mb.menu = Menu ( mb, tearoff = 0 )

mb["menu"] = mb.menu

Professional = IntVar()

Unprofessional = IntVar()

#menu check button

mb.menu.add\_checkbutton ( label = "Professional",

variable = Professional )

mb.menu.add\_checkbutton ( label = "Unprofessional",

variable = Unprofessional )

#pack object

mb.pack()

top.mainloop()

**#########(Radio button widget):**

#import tkinter

from tkinter import \*

import tkinter

top = tkinter.Tk()

var = IntVar()

#use radio button

rb1 = Radiobutton(top, text = "Engineering", variable = var, value = 1,

command = sel)

rb1.pack( anchor = W )

rb2 = Radiobutton(top, text = "Arts", variable = var, value = 2,

command = sel)

rb2.pack( anchor = W )

rb3 = Radiobutton(top, text = "Medical", variable = var, value = 3,

command = sel)

rb3.pack( anchor = W)

label = Label(top)

label.pack()

#trigger the mainloop

top.mainloop()

**############(User entry):**

#import tkinter

from tkinter import \*

#GUI root window

top = tkinter.Tk()

label1 = Label(top, text = "User Name")

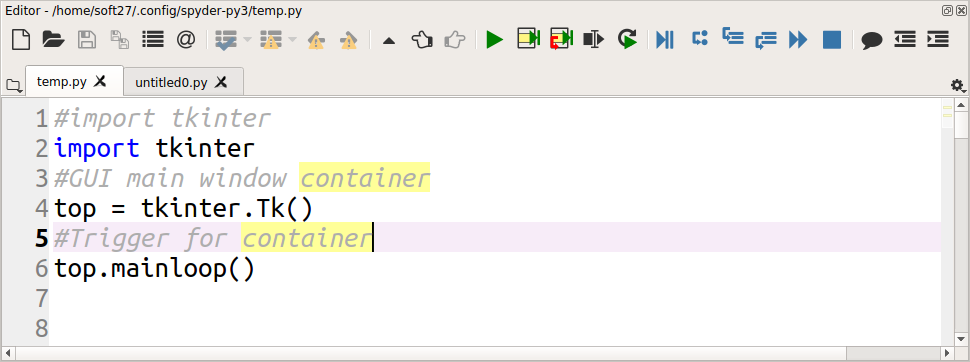
label1.pack( side = LEFT)

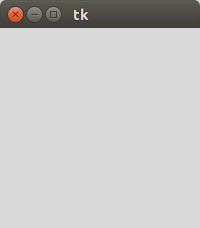
entry1 = Entry(top, bd = 5)

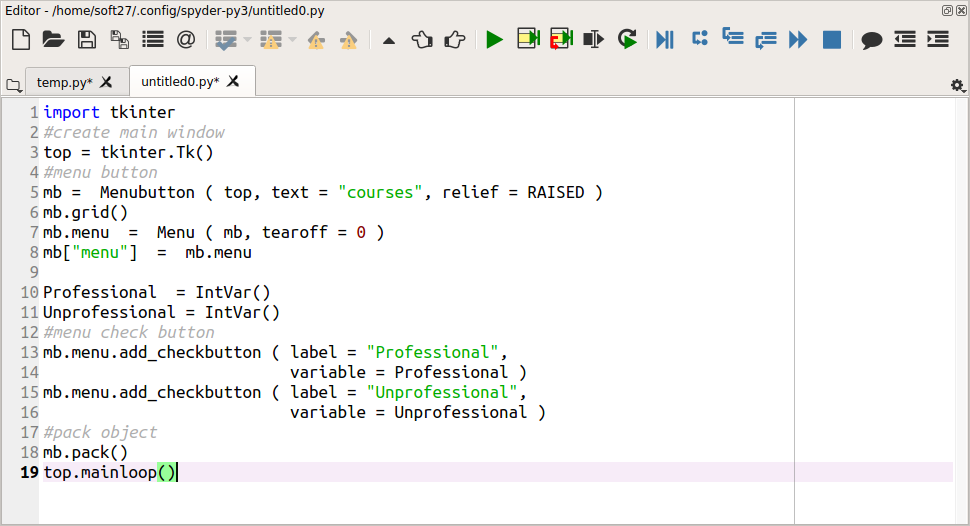
entry1.pack(side = RIGHT)

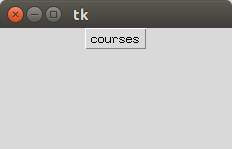
top.mainloop()

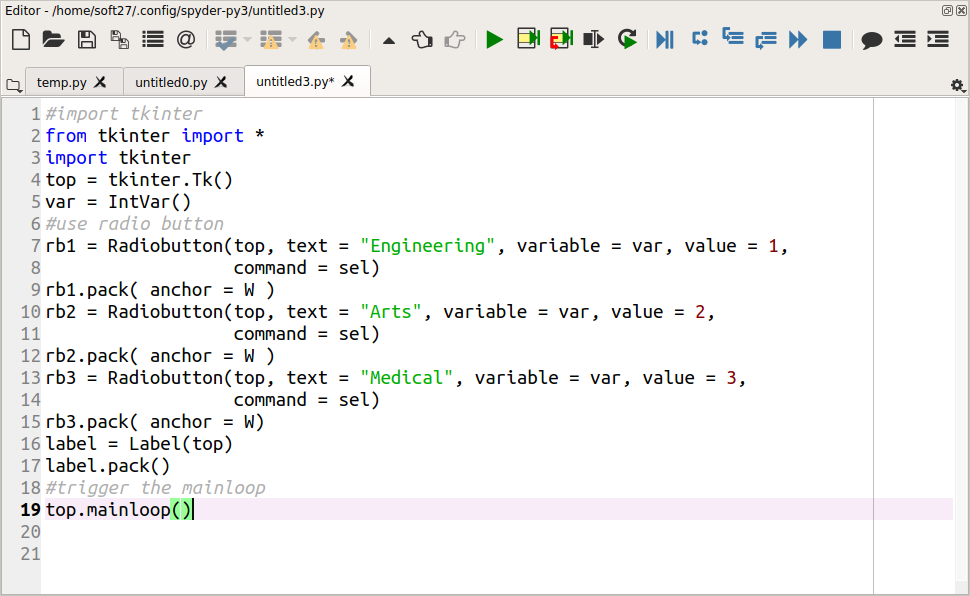
**Screen shots:**

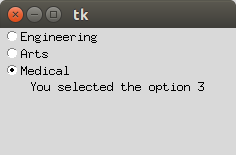
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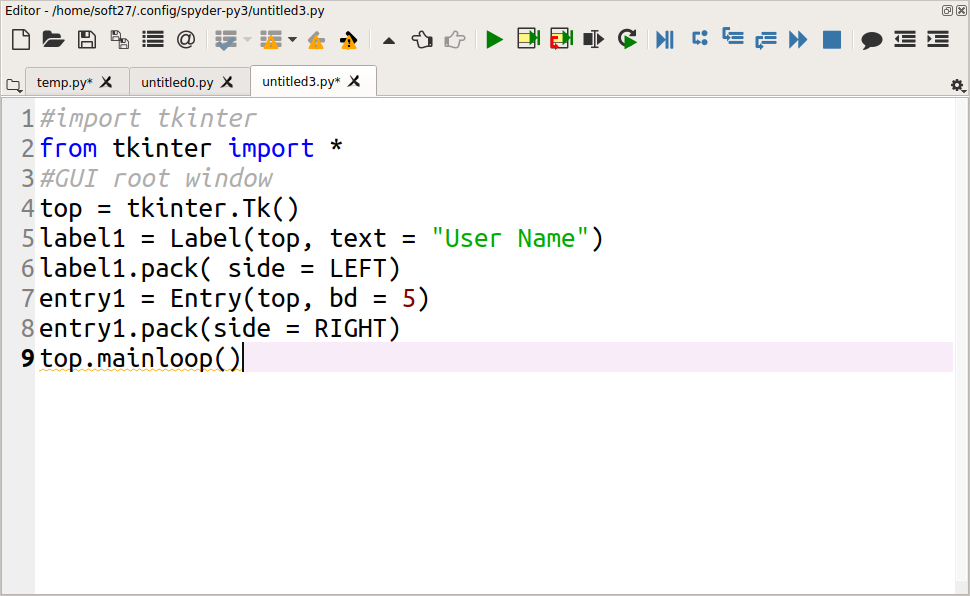
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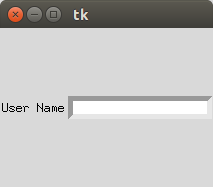
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