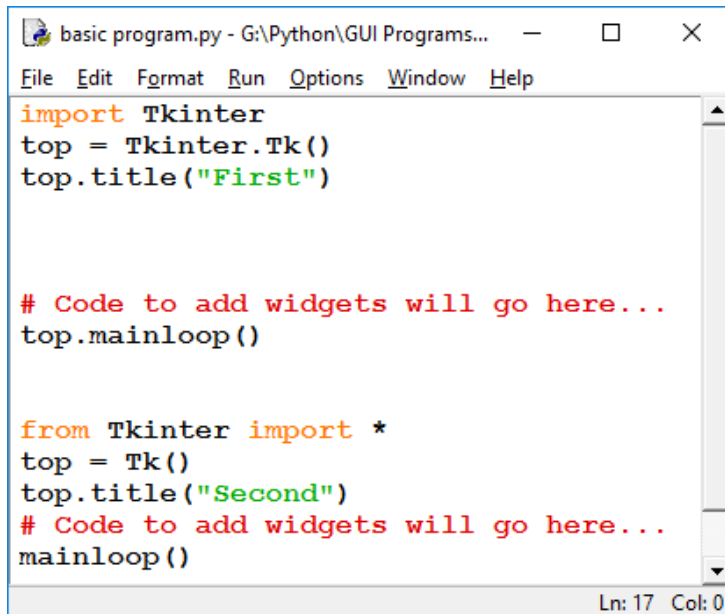


# PYTHON GUI PROGRAMS

## SET I

### Basic Program

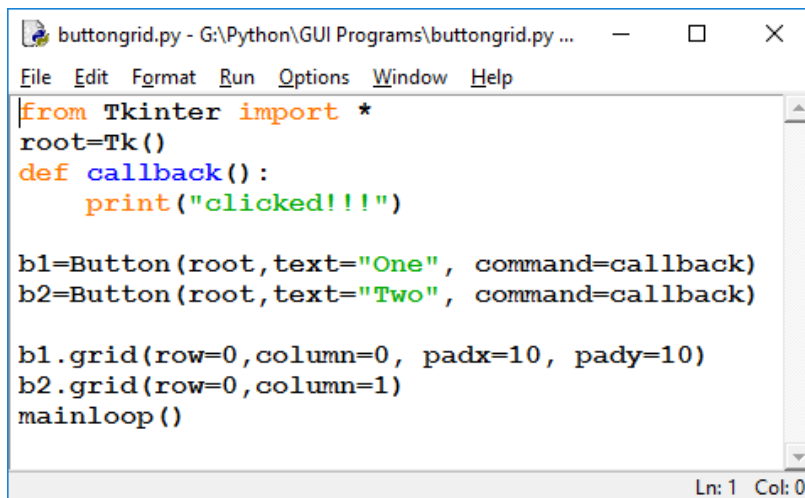


```
basic program.py - G:\Python\GUI Programs...
File Edit Format Run Options Window Help
import Tkinter
top = Tkinter.Tk()
top.title("First")

# Code to add widgets will go here...
top.mainloop()

from Tkinter import *
top = Tk()
top.title("Second")
# Code to add widgets will go here...
mainloop()
Ln: 17 Col: 0
```

### Button with Grid Layout



```
buttongrid.py - G:\Python\GUI Programs\buttongrid.py ...
File Edit Format Run Options Window Help
from Tkinter import *
root=Tk()
def callback():
    print("clicked!!!")

b1=Button(root,text="One", command=callback)
b2=Button(root,text="Two", command=callback)

b1.grid(row=0,column=0, padx=10, pady=10)
b2.grid(row=0,column=1)
mainloop()
Ln: 1 Col: 0
```

### Pack Layout

```
pack.py - G:\Python\GUI Programs\pack.py (2.7.13)
File Edit Format Run Options Window Help
from Tkinter import *

root = Tk()
frame = Frame(root)
frame.pack()

bottomframe = Frame(root)
bottomframe.pack( side = BOTTOM )

redbutton = Button(frame, text="Red", fg="red")
redbutton.pack( side = LEFT)

greenbutton = Button(frame, text="Brown", fg="brown")
greenbutton.pack( side = LEFT )

bluebutton = Button(frame, text="Blue", fg="blue")
bluebutton.pack( side = LEFT )

blackbutton = Button(bottomframe, text="Black", fg="black")
blackbutton.pack( side = BOTTOM)

root.mainloop()

Ln: 8 Col: 0
```

```
packtest.py - G:\Python\GUI Programs\packtest.py (2.7.13)
File Edit Format Run Options Window Help
from Tkinter import *
root=Tk()
Button(root,text="Red", bg="red", fg="white").pack(side=TOP)
Button(root,text="Green", bg="green", fg="white").pack(side=TOP)
Button(root,text="Blue", bg="blue", fg="white").pack(side=TOP)
Button(root,text="Orange", bg="orange", fg="white").pack(side=BOTTOM, expand=True, fill=BOTH)
mainloop()

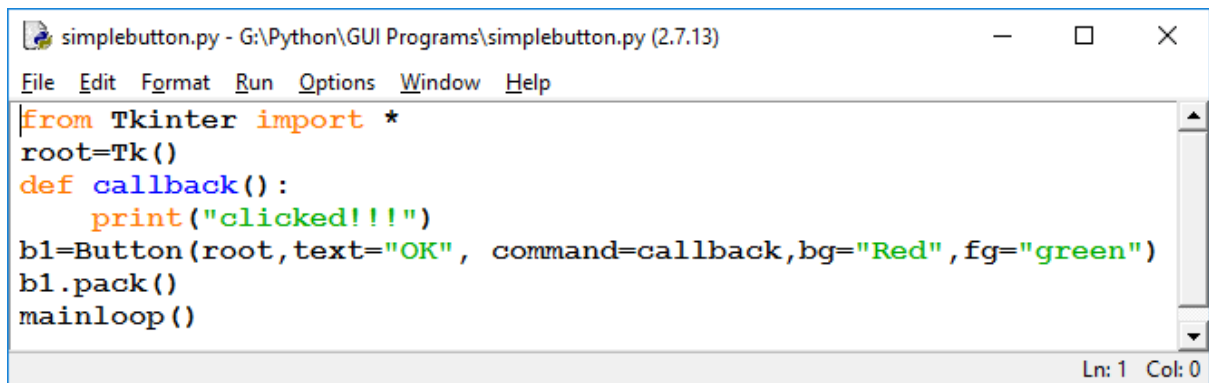
Ln: 1 Col: 0
```

## Place Layout

```
place.py - G:\Python\GUI Programs\place.py (2.7.13)
File Edit Format Run Options Window Help
from Tkinter import *
import tkMessageBox
import Tkinter
top = Tkinter.Tk()
def helloCallBack():
    tkMessageBox.showinfo( "Hello Python", "Hello World")
B = Tkinter.Button(top, text ="Hello", command = helloCallBack)
#B.pack()
B.place(bordermode=INSIDE, height=200, width=100, x=0, y=0)
top.mainloop()

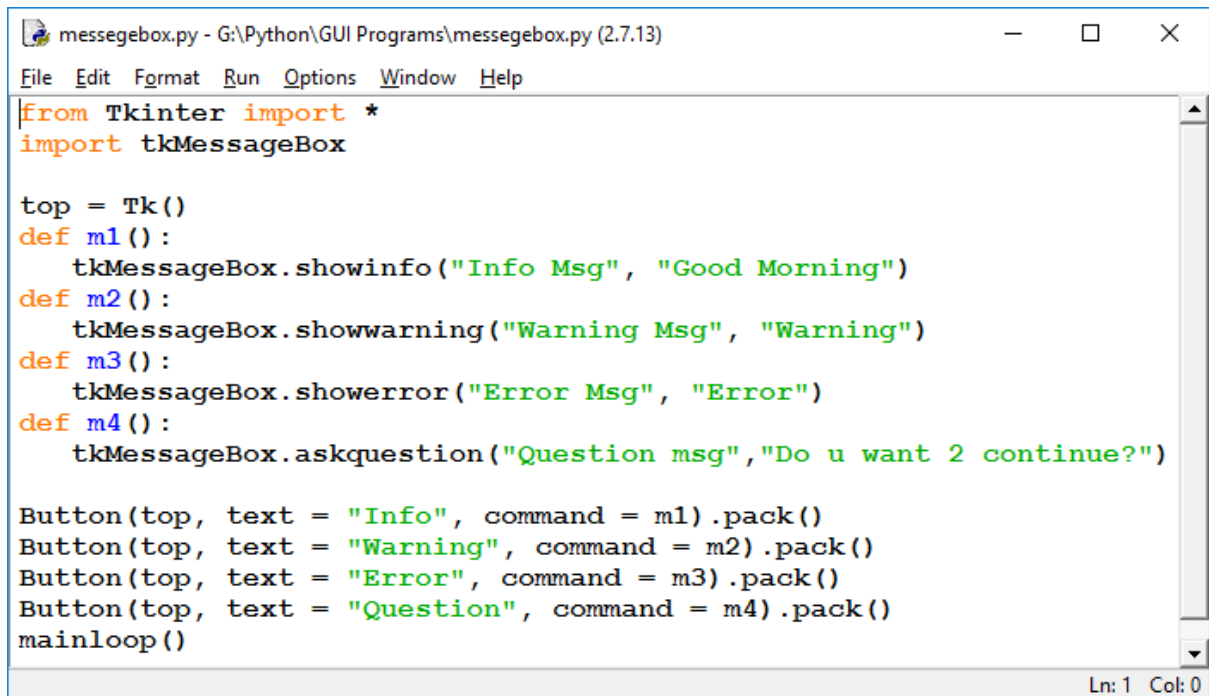
Ln: 11 Col: 0
```

## Simple Button



```
simplebutton.py - G:\Python\GUI Programs\simplebutton.py (2.7.13)
File Edit Format Run Options Window Help
from Tkinter import *
root=Tk()
def callback():
    print("clicked!!!")
b1=Button(root,text="OK", command=callback,bg="Red",fg="green")
b1.pack()
mainloop()
Ln: 1 Col: 0
```

## MessageBox

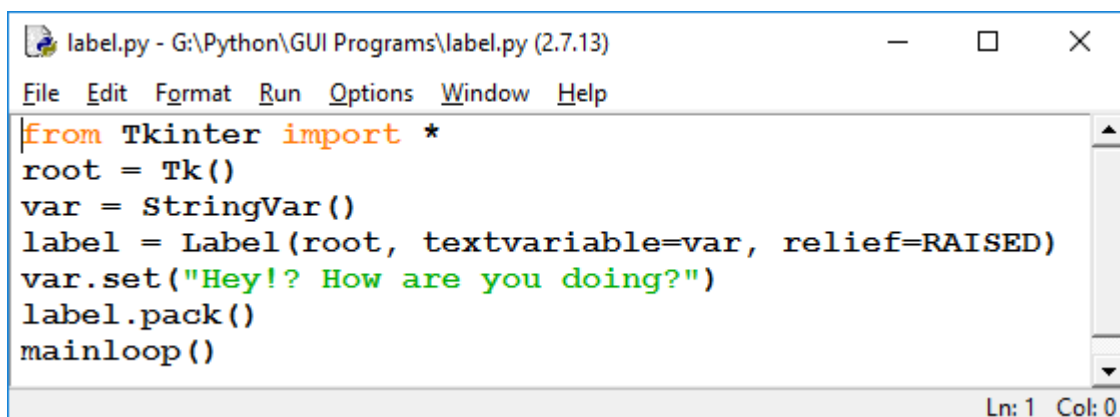


```
messegebox.py - G:\Python\GUI Programs\messegebox.py (2.7.13)
File Edit Format Run Options Window Help
from Tkinter import *
import tkMessageBox

top = Tk()
def m1():
    tkMessageBox.showinfo("Info Msg", "Good Morning")
def m2():
    tkMessageBox.showwarning("Warning Msg", "Warning")
def m3():
    tkMessageBox.showerror("Error Msg", "Error")
def m4():
    tkMessageBox.askquestion("Question msg","Do u want 2 continue?")

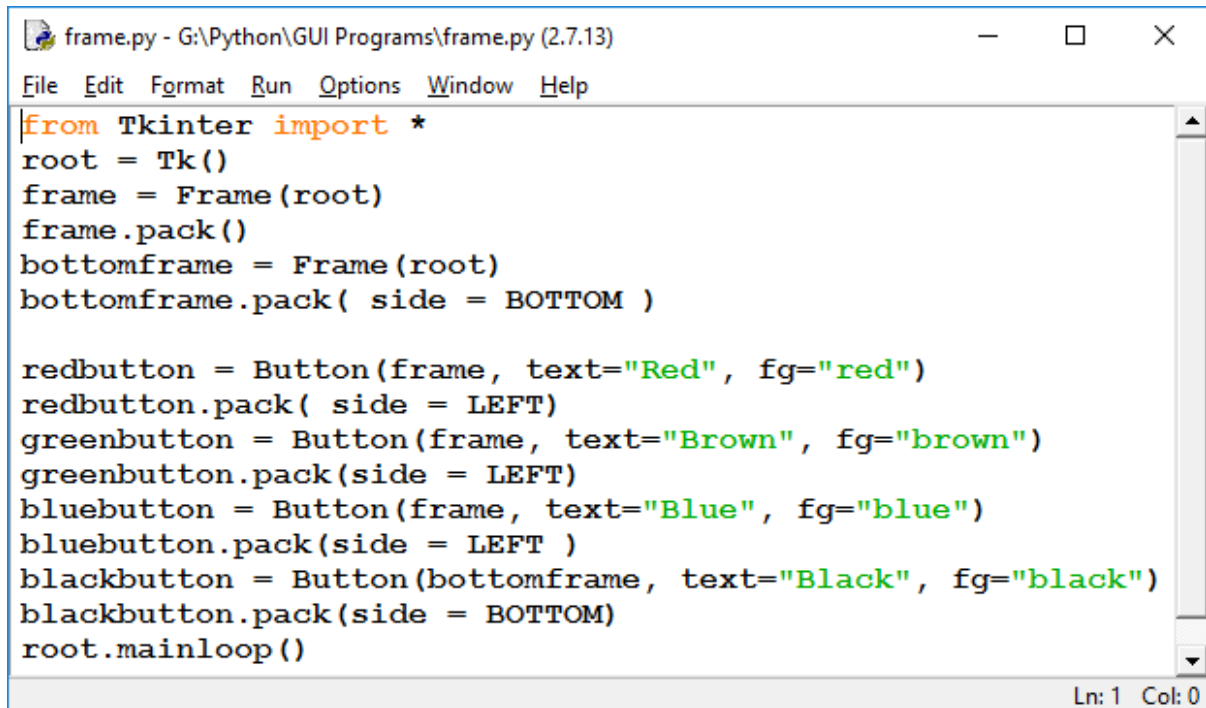
Button(top, text = "Info", command = m1).pack()
Button(top, text = "Warning", command = m2).pack()
Button(top, text = "Error", command = m3).pack()
Button(top, text = "Question", command = m4).pack()
mainloop()
Ln: 1 Col: 0
```

## Label



```
label.py - G:\Python\GUI Programs\label.py (2.7.13)
File Edit Format Run Options Window Help
from Tkinter import *
root = Tk()
var = StringVar()
label = Label(root, textvariable=var, relief=RAISED)
var.set("Hey!? How are you doing?")
label.pack()
mainloop()
Ln: 1 Col: 0
```

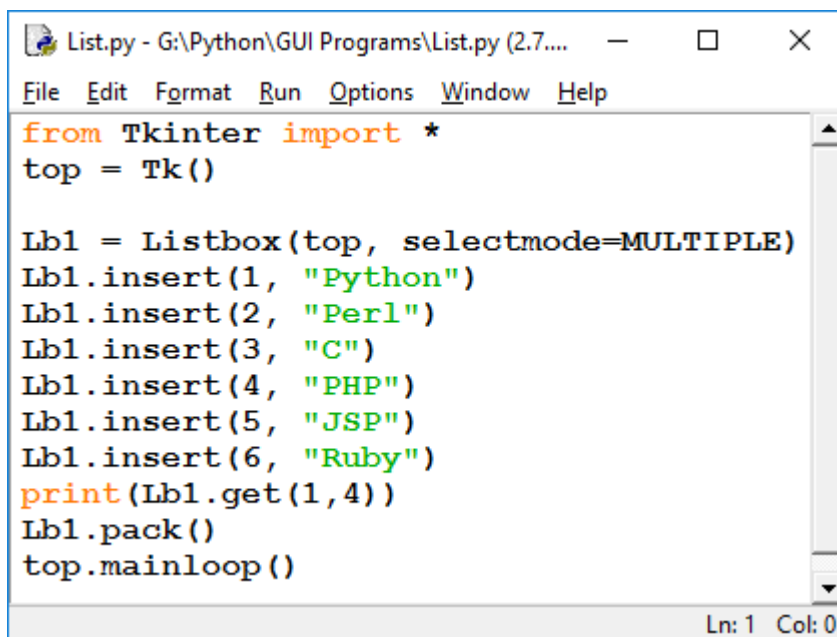
## Frame



```
frame.py - G:\Python\GUI Programs\frame.py (2.7.13)
File Edit Format Run Options Window Help
from Tkinter import *
root = Tk()
frame = Frame(root)
frame.pack()
bottomframe = Frame(root)
bottomframe.pack( side = BOTTOM )

redbutton = Button(frame, text="Red", fg="red")
redbutton.pack( side = LEFT)
greenbutton = Button(frame, text="Brown", fg="brown")
greenbutton.pack(side = LEFT)
bluebutton = Button(frame, text="Blue", fg="blue")
bluebutton.pack(side = LEFT )
blackbutton = Button(bottomframe, text="Black", fg="black")
blackbutton.pack(side = BOTTOM)
root.mainloop()
Ln: 1 Col: 0
```

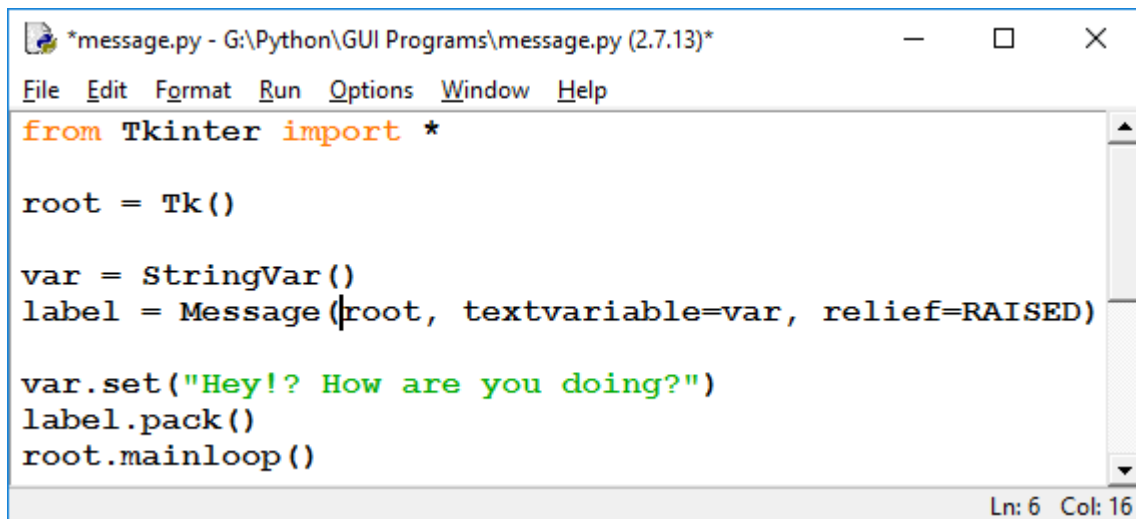
## List



```
List.py - G:\Python\GUI Programs>List.py (2.7....
File Edit Format Run Options Window Help
from Tkinter import *
top = Tk()

Lb1 = Listbox(top, selectmode=MULTIPLE)
Lb1.insert(1, "Python")
Lb1.insert(2, "Perl")
Lb1.insert(3, "C")
Lb1.insert(4, "PHP")
Lb1.insert(5, "JSP")
Lb1.insert(6, "Ruby")
print(Lb1.get(1,4))
Lb1.pack()
top.mainloop()
Ln: 1 Col: 0
```

## Message



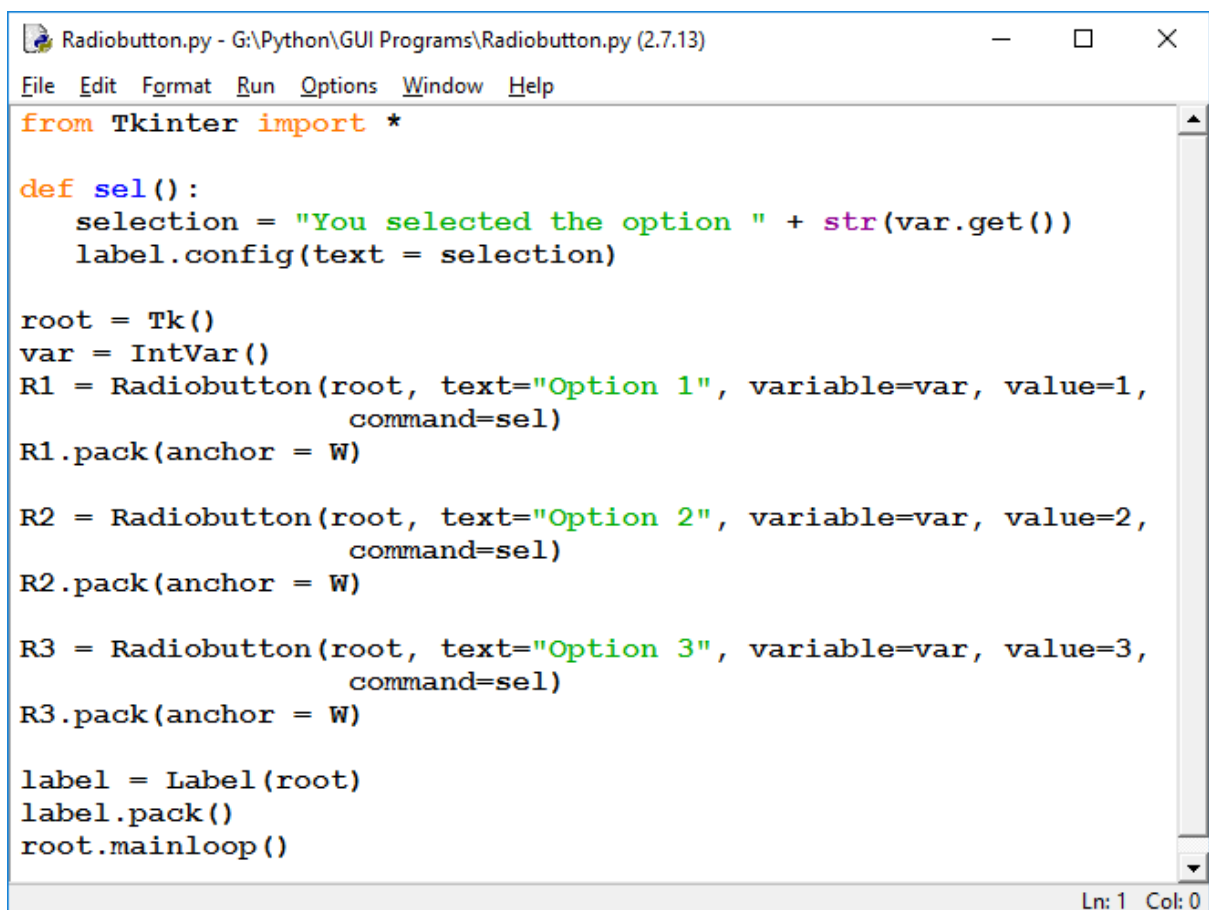
```
*message.py - G:\Python\GUI Programs\message.py (2.7.13)*
File Edit Format Run Options Window Help
from Tkinter import *

root = Tk()

var = StringVar()
label = Message(root, textvariable=var, relief=RAISED)

var.set("Hey!? How are you doing?")
label.pack()
root.mainloop()
Ln: 6 Col: 16
```

## Radiobutton



```
Radiobutton.py - G:\Python\GUI Programs\Radiobutton.py (2.7.13)
File Edit Format Run Options Window Help
from Tkinter import *

def sel():
    selection = "You selected the option " + str(var.get())
    label.config(text = selection)

root = Tk()
var = IntVar()
R1 = Radiobutton(root, text="Option 1", variable=var, value=1,
                 command=sel)
R1.pack(anchor = W)

R2 = Radiobutton(root, text="Option 2", variable=var, value=2,
                 command=sel)
R2.pack(anchor = W)

R3 = Radiobutton(root, text="Option 3", variable=var, value=3,
                 command=sel)
R3.pack(anchor = W)

label = Label(root)
label.pack()
root.mainloop()
Ln: 1 Col: 0
```

## Scale

```
*scale.py - G:\Python\GUI Programs\scale.py (2.7.13)*
File Edit Format Run Options Window Help
from Tkinter import *

def sel():
    selection = "Value = " + str(var.get())
    label.config(text = selection)

root = Tk()
var = DoubleVar()
scale=Scale(root,variable = var)
scale.pack(anchor=CENTER)

button = Button(root, text="Get Scale Value", command=sel)
button.pack(anchor=CENTER)

label = Label(root)
label.pack()

root.mainloop()

Ln: 8 Col: 0
```

## LabelFrame

```
labelframe.py - G:\Python\GUI Programs\labelframe.py (2.7.13)
File Edit Format Run Options Window Help
from Tkinter import *

root = Tk()

labelframe = LabelFrame(root, text="This is a LabelFrame")
labelframe.pack(fill="both", expand="yes")

left = Label(labelframe, text="Inside the LabelFrame")
left.pack()

root.mainloop()

Ln: 1 Col: 0
```

## Entry

```
Entry.py - G:\Python\GUI Programs\Entry.py (2.7.13)
File Edit Format Run Options Window Help
from Tkinter import *
root=Tk()
def show():
    print("Your Name: %s"%(var1.get()))

Label(root,text="Enter Name").pack()
var1=Entry(root)
var1.pack()
Button(root,text="Show",command=show).pack()
mainloop()

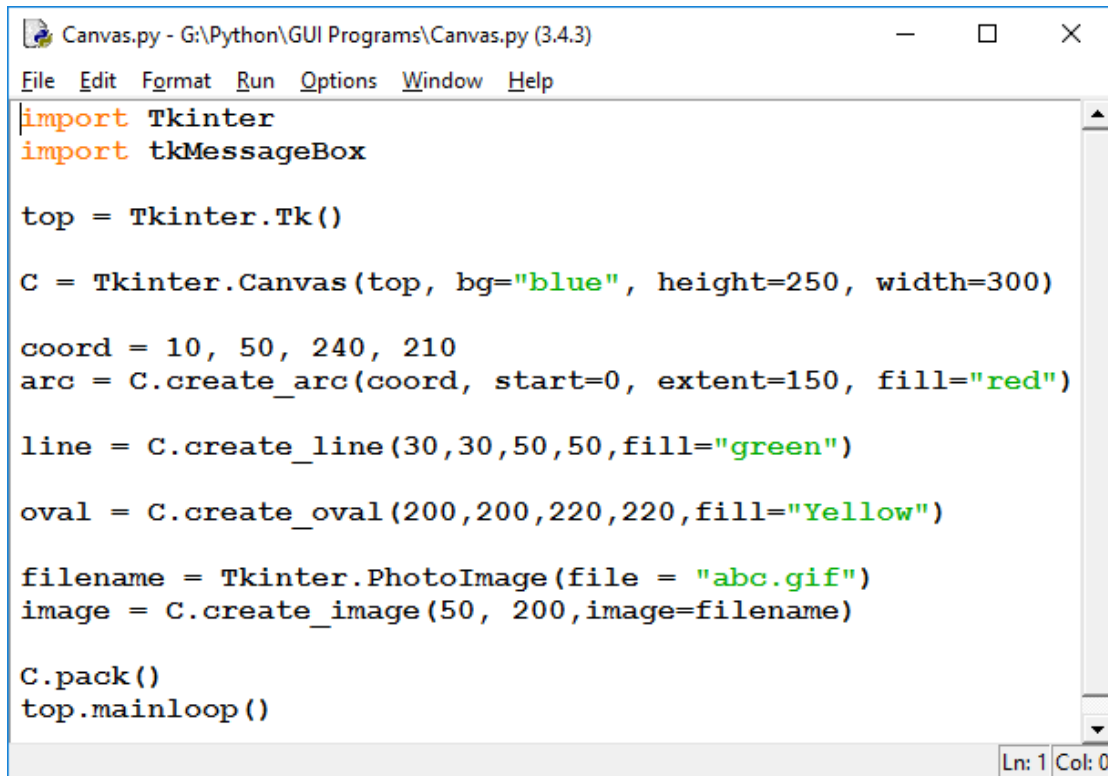
Ln: 1 Col: 0
```



# PYTHON GUI PROGRAMS

## SET II

### Canvas



```
Canvas.py - G:\Python\GUI Programs\Canvas.py (3.4.3)
File Edit Format Run Options Window Help
import Tkinter
import tkMessageBox

top = Tkinter.Tk()

C = Tkinter.Canvas(top, bg="blue", height=250, width=300)

coord = 10, 50, 240, 210
arc = C.create_arc(coord, start=0, extent=150, fill="red")

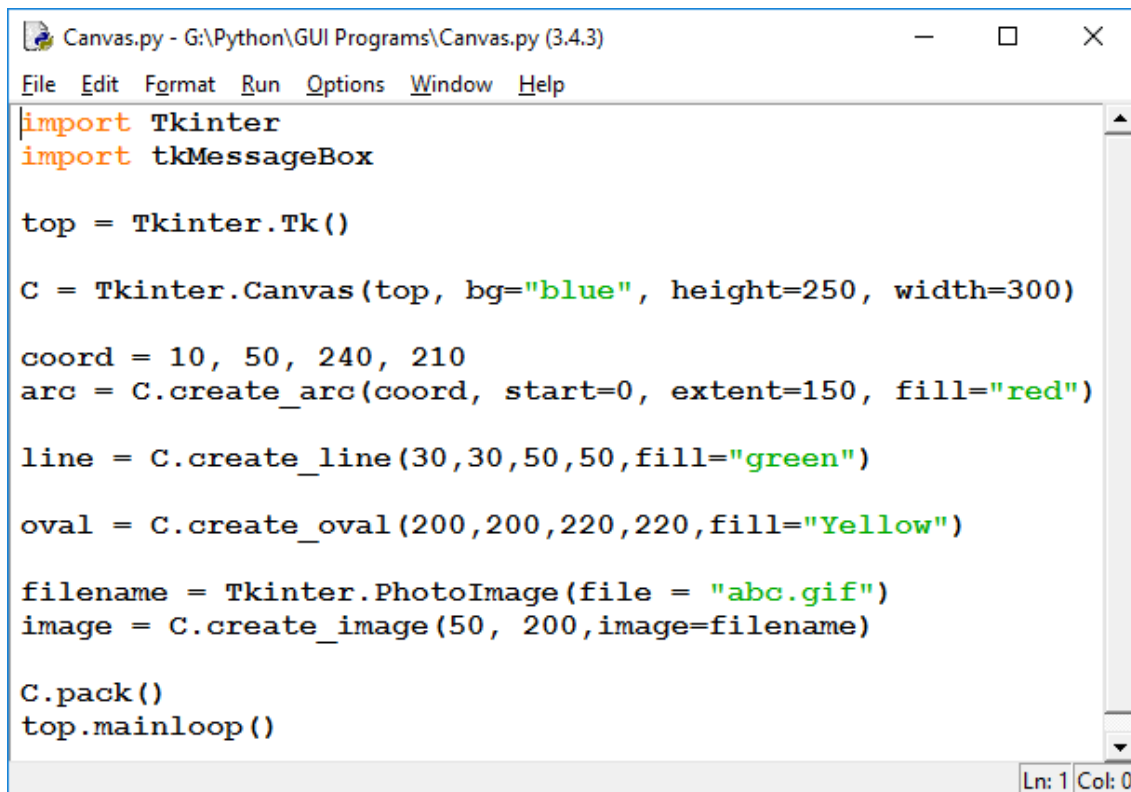
line = C.create_line(30,30,50,50,fill="green")

oval = C.create_oval(200,200,220,220,fill="Yellow")

filename = Tkinter.PhotoImage(file = "abc.gif")
image = C.create_image(50, 200,image=filename)

C.pack()
top.mainloop()
Ln: 1 Col: 0
```

### Checkbutton



```
Canvas.py - G:\Python\GUI Programs\Canvas.py (3.4.3)
File Edit Format Run Options Window Help
import Tkinter
import tkMessageBox

top = Tkinter.Tk()

C = Tkinter.Canvas(top, bg="blue", height=250, width=300)

coord = 10, 50, 240, 210
arc = C.create_arc(coord, start=0, extent=150, fill="red")

line = C.create_line(30,30,50,50,fill="green")

oval = C.create_oval(200,200,220,220,fill="Yellow")

filename = Tkinter.PhotoImage(file = "abc.gif")
image = C.create_image(50, 200,image=filename)

C.pack()
top.mainloop()
Ln: 1 Col: 0
```



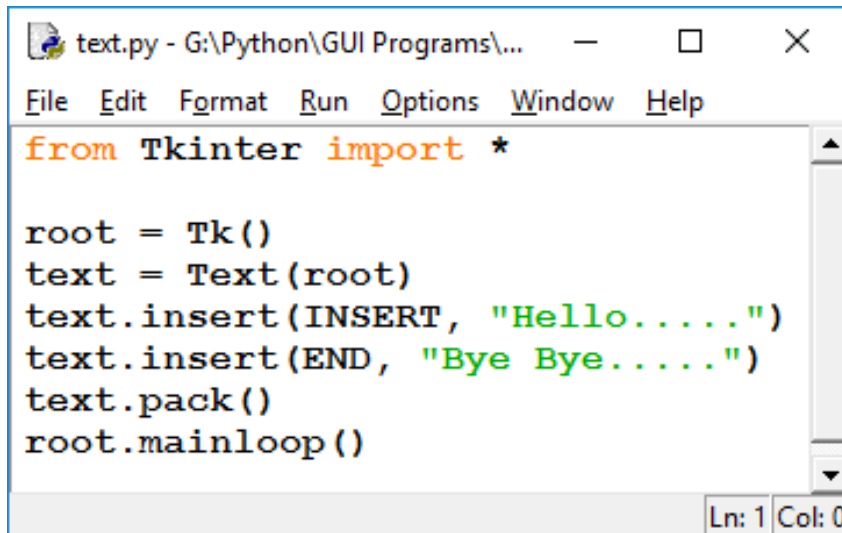
## Menubutton

```
mb.py - G:\Python\GUI Programs\mb.py (3.4.3)
File Edit Format Run Options Window Help
from Tkinter import *
root = Tk()
mbutton = Menubutton(root, text='Food',direction="above")
picks = Menu(mbutton)
mbutton.config(menu=picks)
picks.add_command(label='Sandwich', command=root.quit)
picks.add_command(label='Tea', command=root.quit)
picks.add_command(label='Coffee', command=root.quit)
mbutton.pack()
mbutton.config(bg='white', bd=4, relief=RAISED)
root.mainloop()
Ln: 1 Col: 0
```

## Menu

```
*menu.py - G:\Python\GUI Programs\menu.py (3.4.3)*
File Edit Format Run Options Window Help
from tkinter import *
def donothing():
    filewin = Toplevel(root)
    button = Button(filewin, text="Do nothing button")
    button.pack()
root = Tk()
menubar = Menu(root)
filemenu = Menu(menubar, tearoff=0)
filemenu.add_command(label="New", command=donothing)
filemenu.add_command(label="Open", command=donothing)
filemenu.add_command(label="Save", command=donothing)
filemenu.add_command(label="Save as...", command=donothing)
filemenu.add_command(label="Close", command=donothing)
filemenu.add_separator()
filemenu.add_command(label="Exit", command=root.quit)
menubar.add_cascade(label="File", menu=filemenu)
editmenu = Menu(menubar, tearoff=0)
editmenu.add_command(label="Undo", command=donothing)
editmenu.add_separator()
editmenu.add_command(label="Cut", command=donothing)
editmenu.add_command(label="Copy", command=donothing)
editmenu.add_command(label="Paste", command=donothing)
editmenu.add_command(label="Delete", command=donothing)
editmenu.add_command(label="Select All", command=donothing)
menubar.add_cascade(label="Edit", menu=editmenu)
helpmenu = Menu(menubar, tearoff=0)
helpmenu.add_command(label="Help Index", command=donothing)
helpmenu.add_command(label="About...", command=donothing)
menubar.add_cascade(label="Help", menu=helpmenu)
root.config(menu=menubar)
root.mainloop()
```

## Text

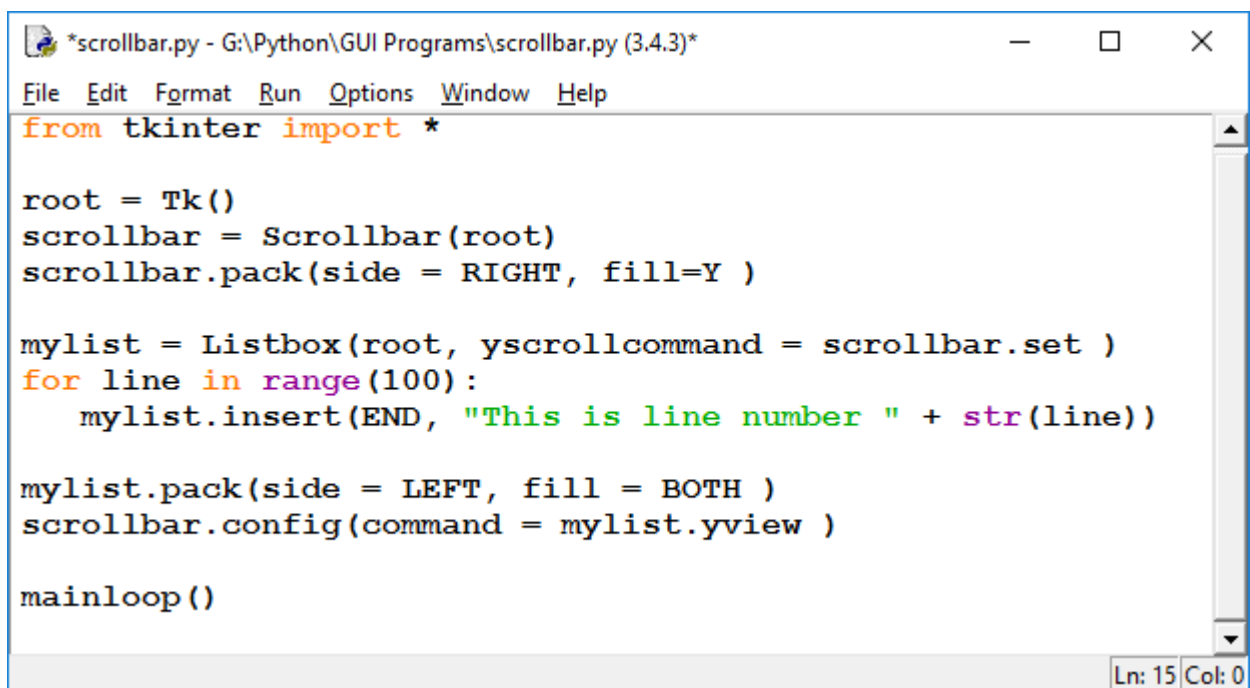


```
text.py - G:\Python\GUI Programs\... - □ ×
File Edit Format Run Options Window Help
from Tkinter import *

root = Tk()
text = Text(root)
text.insert(INSERT, "Hello.....")
text.insert(END, "Bye Bye.....")
text.pack()
root.mainloop()

Ln: 1 Col: 0
```

## Scrollbar



```
*scrollbar.py - G:\Python\GUI Programs\scrollbar.py (3.4.3)* - □ ×
File Edit Format Run Options Window Help
from tkinter import *

root = Tk()
scrollbar = Scrollbar(root)
scrollbar.pack(side = RIGHT, fill=Y )

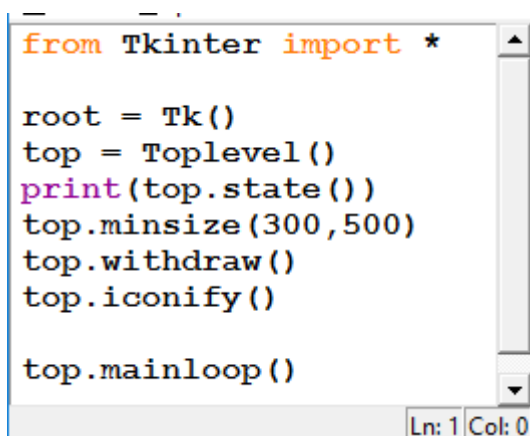
mylist = Listbox(root, yscrollcommand = scrollbar.set )
for line in range(100):
    mylist.insert(END, "This is line number " + str(line))

mylist.pack(side = LEFT, fill = BOTH )
scrollbar.config(command = mylist.yview )

mainloop()

Ln: 15 Col: 0
```

## Toplevel



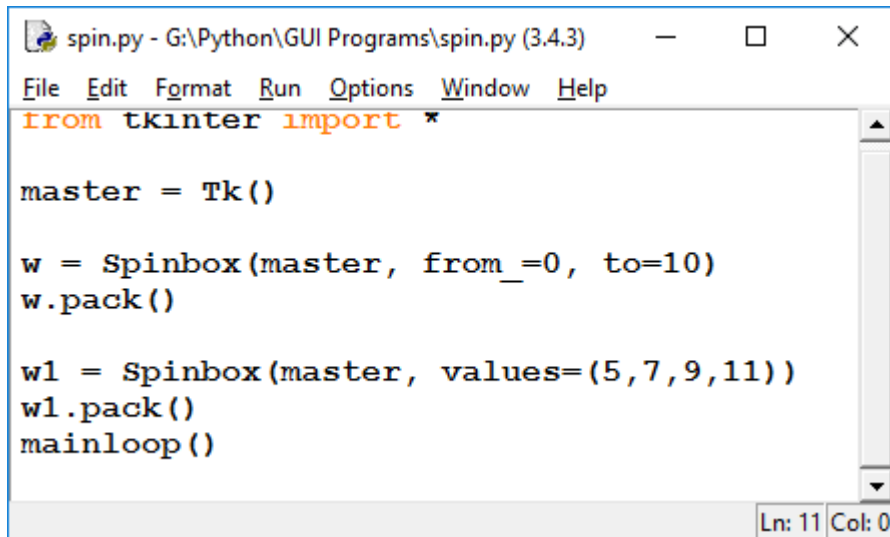
```
- .
from Tkinter import *

root = Tk()
top = Toplevel()
print(top.state())
top.minsize(300,500)
top.withdraw()
top.iconify()

top.mainloop()

Ln: 1 Col: 0
```

## Spinbox



```
spin.py - G:\Python\GUI Programs\spin.py (3.4.3)
File Edit Format Run Options Window Help
from tkinter import *

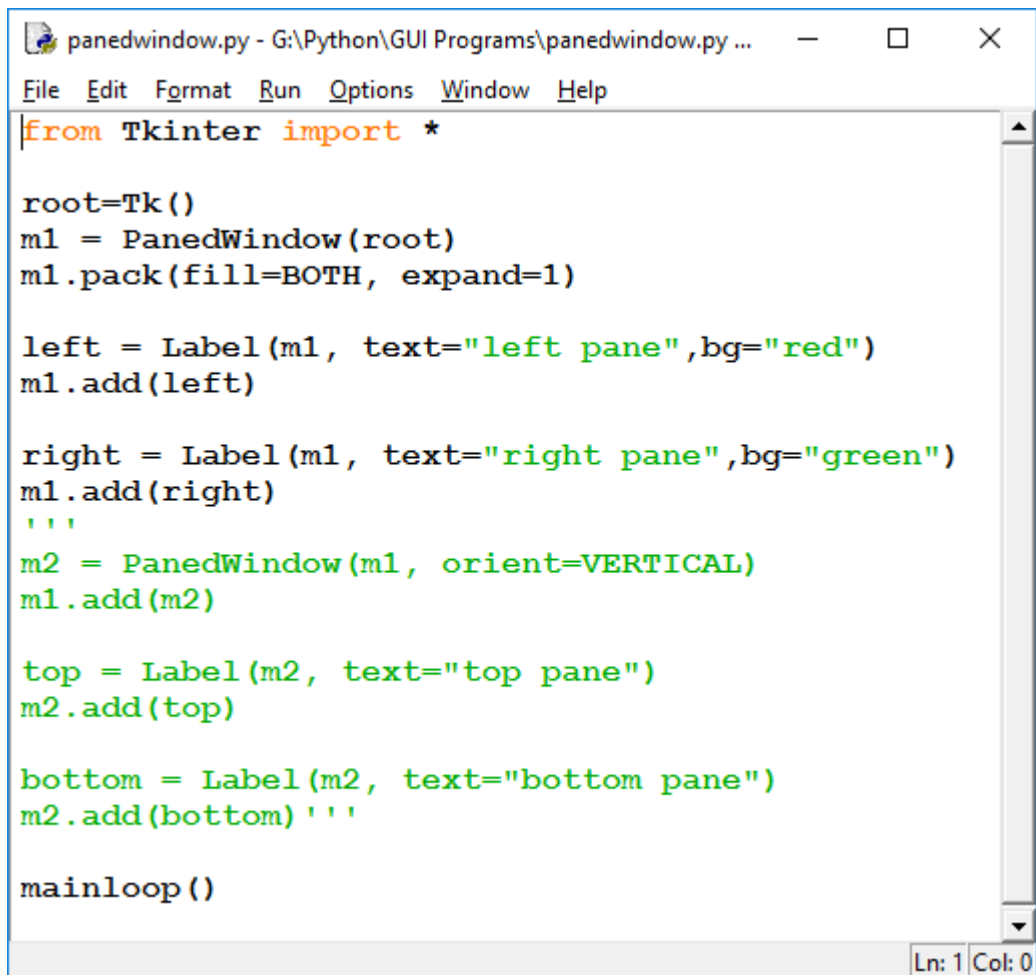
master = Tk()

w = Spinbox(master, from_=0, to=10)
w.pack()

w1 = Spinbox(master, values=(5,7,9,11))
w1.pack()
mainloop()

Ln: 11 Col: 0
```

## PanedWindow



```
panedwindow.py - G:\Python\GUI Programs\panedwindow.py ...
File Edit Format Run Options Window Help
from Tkinter import *

root=Tk()
m1 = PanedWindow(root)
m1.pack(fill=BOTH, expand=1)

left = Label(m1, text="left pane",bg="red")
m1.add(left)

right = Label(m1, text="right pane",bg="green")
m1.add(right)
'''
m2 = PanedWindow(m1, orient=VERTICAL)
m1.add(m2)

top = Label(m2, text="top pane")
m2.add(top)

bottom = Label(m2, text="bottom pane")
m2.add(bottom)'''

mainloop()

Ln: 1 Col: 0
```