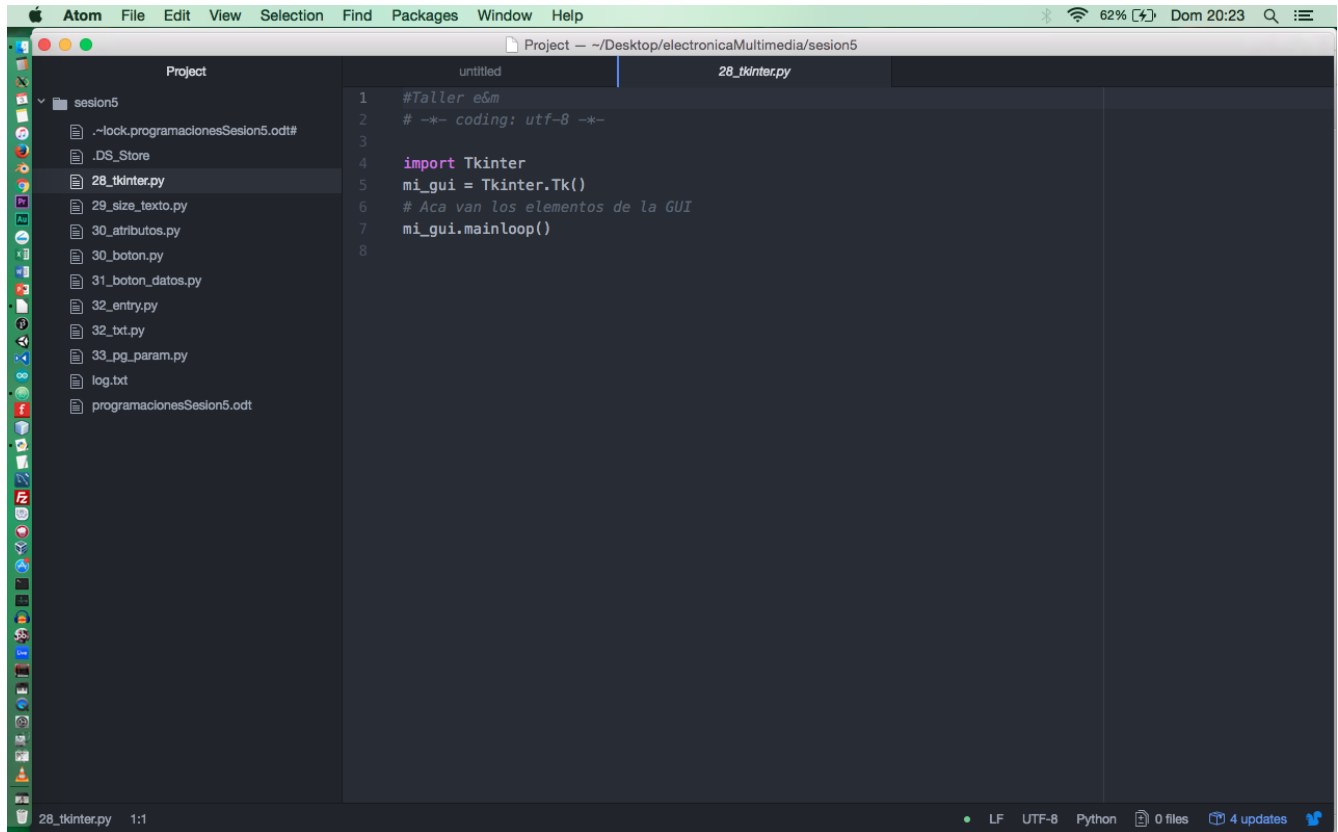


Programaciones sesión 5

GUI. Tkinter, datetime, log de errores.

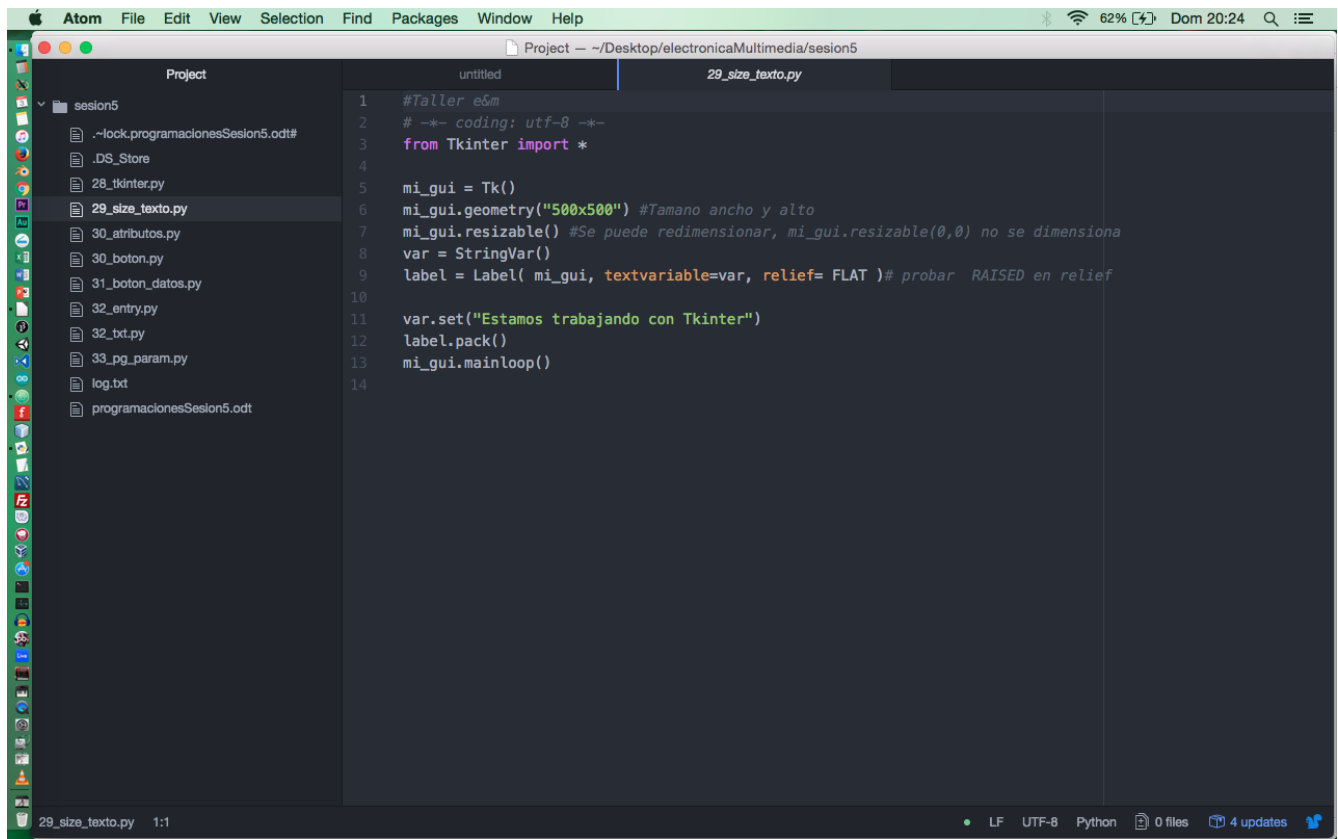
28_tkinter



```
1 #Taller e5m
2 # -*- coding: utf-8 -*-
3
4 import Tkinter
5 mi_gui = Tkinter.Tk()
6 # Aca van los elementos de la GUI
7 mi_gui.mainloop()
8
```

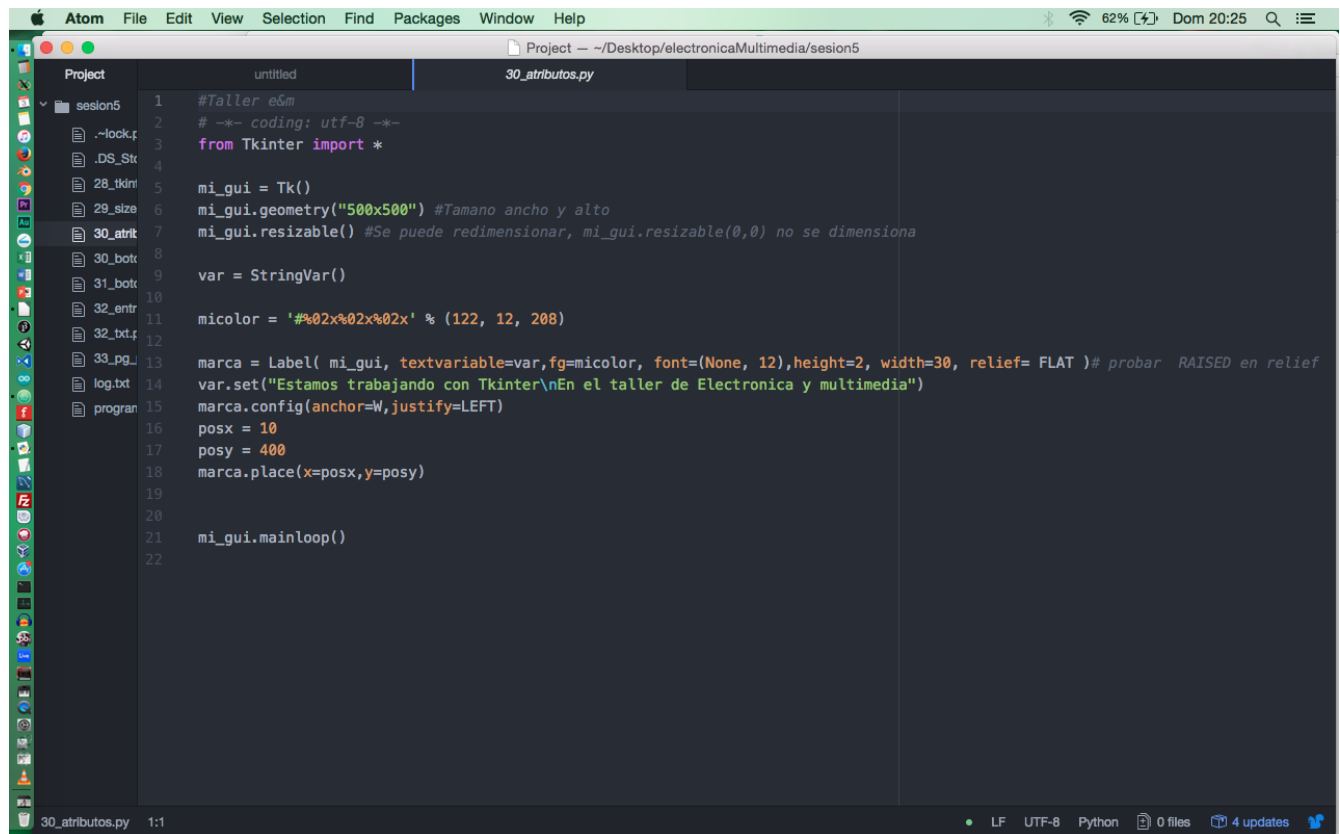
The screenshot shows the Atom text editor interface. The top menu bar includes 'Atom', 'File', 'Edit', 'View', 'Selection', 'Find', 'Packages', 'Window', and 'Help'. The status bar at the bottom indicates '28_tkinter.py 1:1', 'LF', 'UTF-8', 'Python', '0 files', and '4 updates'. The left sidebar shows a project structure for 'sesion5' with files like '28_tkinter.py', '29_size_texto.py', '30_atributos.py', '30_boton.py', '31_boton_datos.py', '32_entry.py', '32_bt.py', '33_pg_param.py', 'log.txt', and 'programacionesSesion5.odt'. The main editor area displays the code for '28_tkinter.py'.

29size_texto



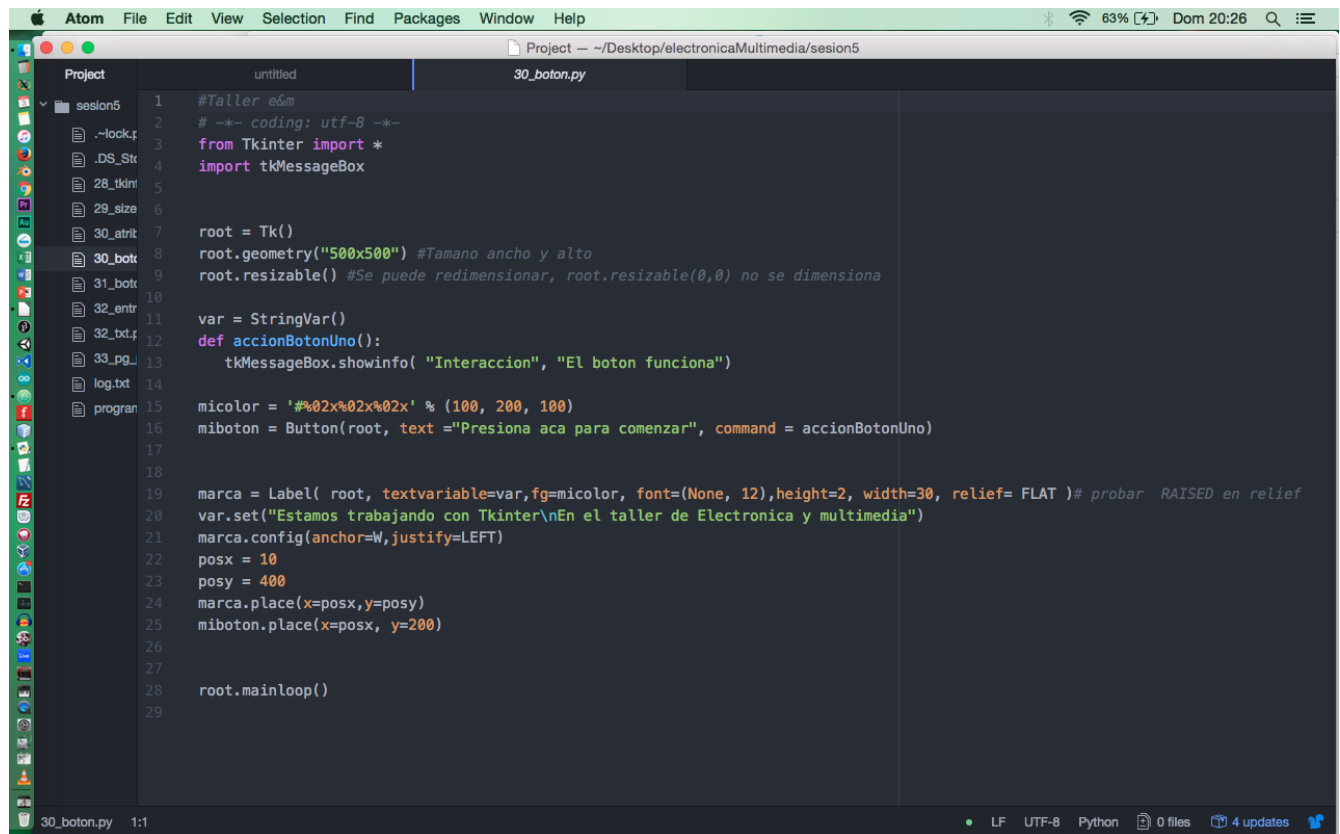
```
1 #Taller eSm
2 # -*- coding: utf-8 -*-
3 from Tkinter import *
4
5 mi_gui = Tk()
6 mi_gui.geometry("500x500") #Tamano ancho y alto
7 mi_gui.resizable() #Se puede redimensionar, mi_gui.resizable(0,0) no se dimensiona
8 var = StringVar()
9 label = Label( mi_gui, textvariable=var, relief= FLAT )# probar RAISED en relief
10
11 var.set("Estamos trabajando con Tkinter")
12 label.pack()
13 mi_gui.mainloop()
14
```

30_atributos



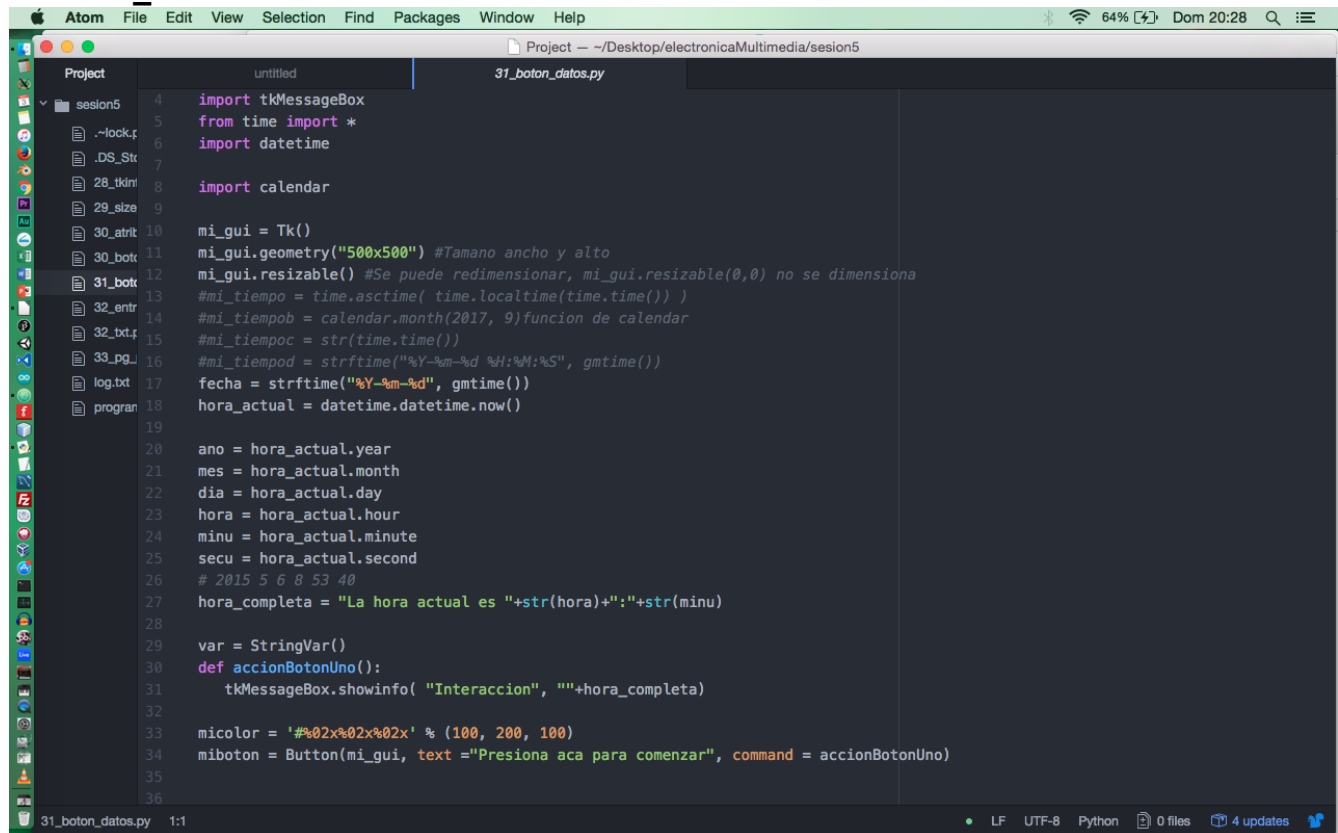
```
1  #Taller eSm
2  # -*- coding: utf-8 -*-
3  from Tkinter import *
4
5  mi_gui = Tk()
6  mi_gui.geometry("500x500") #Tamano ancho y alto
7  mi_gui.resizable() #Se puede redimensionar, mi_gui.resizable(0,0) no se dimensiona
8
9  var = StringVar()
10
11  micolor = '#02x%02x%02x' % (122, 12, 208)
12
13  marca = Label( mi_gui, textvariable=var,fg=micolor, font=(None, 12),height=2, width=30, relief= FLAT )# probar RAISED en relief
14  var.set("Estamos trabajando con Tkinter\nEn el taller de Electronica y multimedia")
15  marca.config(anchor=W,justify=LEFT)
16  posx = 10
17  posy = 400
18  marca.place(x=posx,y=posy)
19
20
21  mi_gui.mainloop()
22
```

30_boton



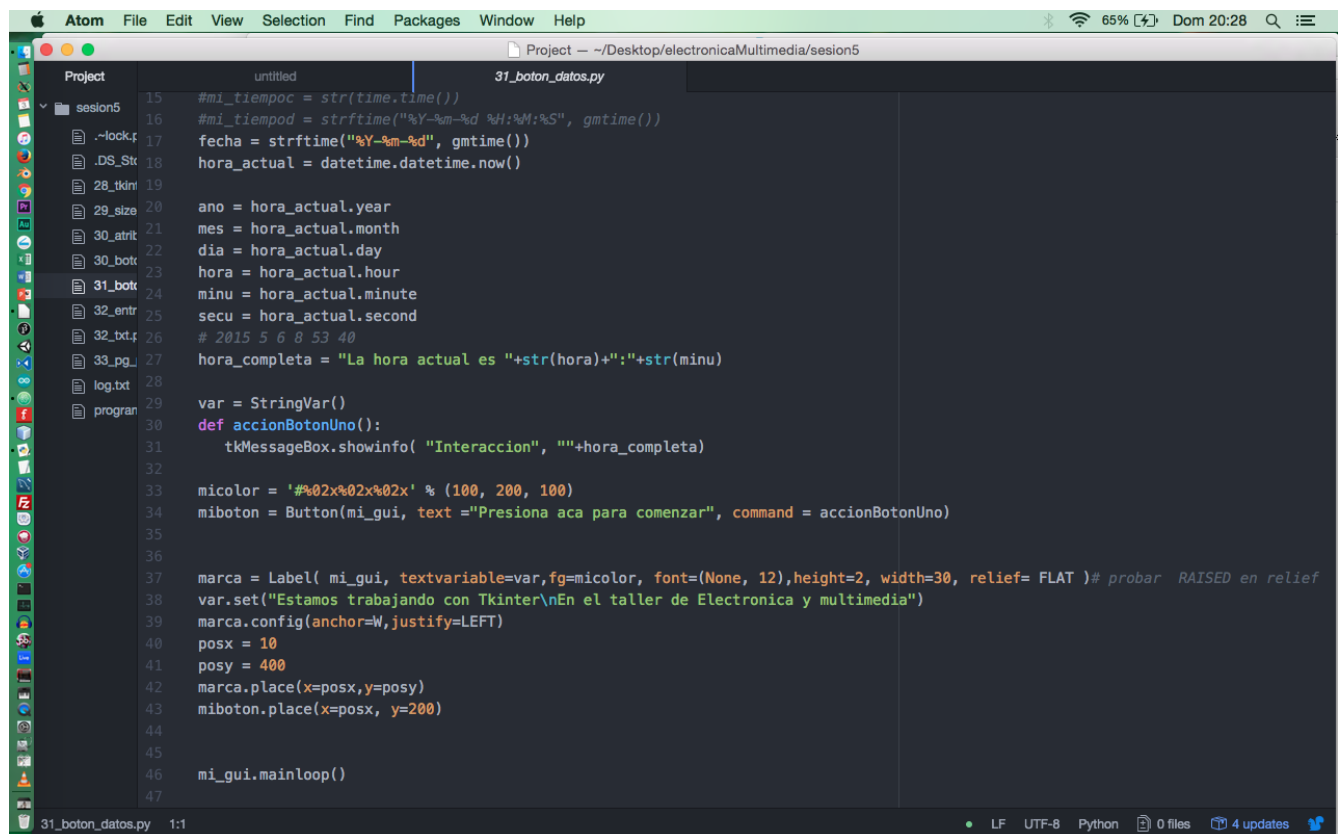
```
1 #Taller e5m
2 # -*- coding: utf-8 -*-
3 from Tkinter import *
4 import tkMessageBox
5
6
7 root = Tk()
8 root.geometry("500x500") #Tamano ancho y alto
9 root.resizable() #Se puede redimensionar, root.resizable(0,0) no se dimensiona
10
11 var = StringVar()
12 def accionBotonUno():
13     tkMessageBox.showinfo( "Interaccion", "El boton funciona")
14
15 micolor = '#02x%02x%02x' % (100, 200, 100)
16 miboton = Button(root, text="Presiona aca para comenzar", command = accionBotonUno)
17
18
19 marca = Label( root, textvariable=var,fg=micolor, font=(None, 12),height=2, width=30, relief= FLAT )# probar RAISED en relief
20 var.set("Estamos trabajando con Tkinter\nEn el taller de Electronica y multimedia")
21 marca.config(anchor=W,justify=LEFT)
22 posx = 10
23 posy = 400
24 marca.place(x=posx,y=posy)
25 miboton.place(x=posx, y=200)
26
27
28 root.mainloop()
29
```

31boton_datos



```
Project — ~/Desktop/electronicaMultimedia/sesion5
31_boton_datos.py

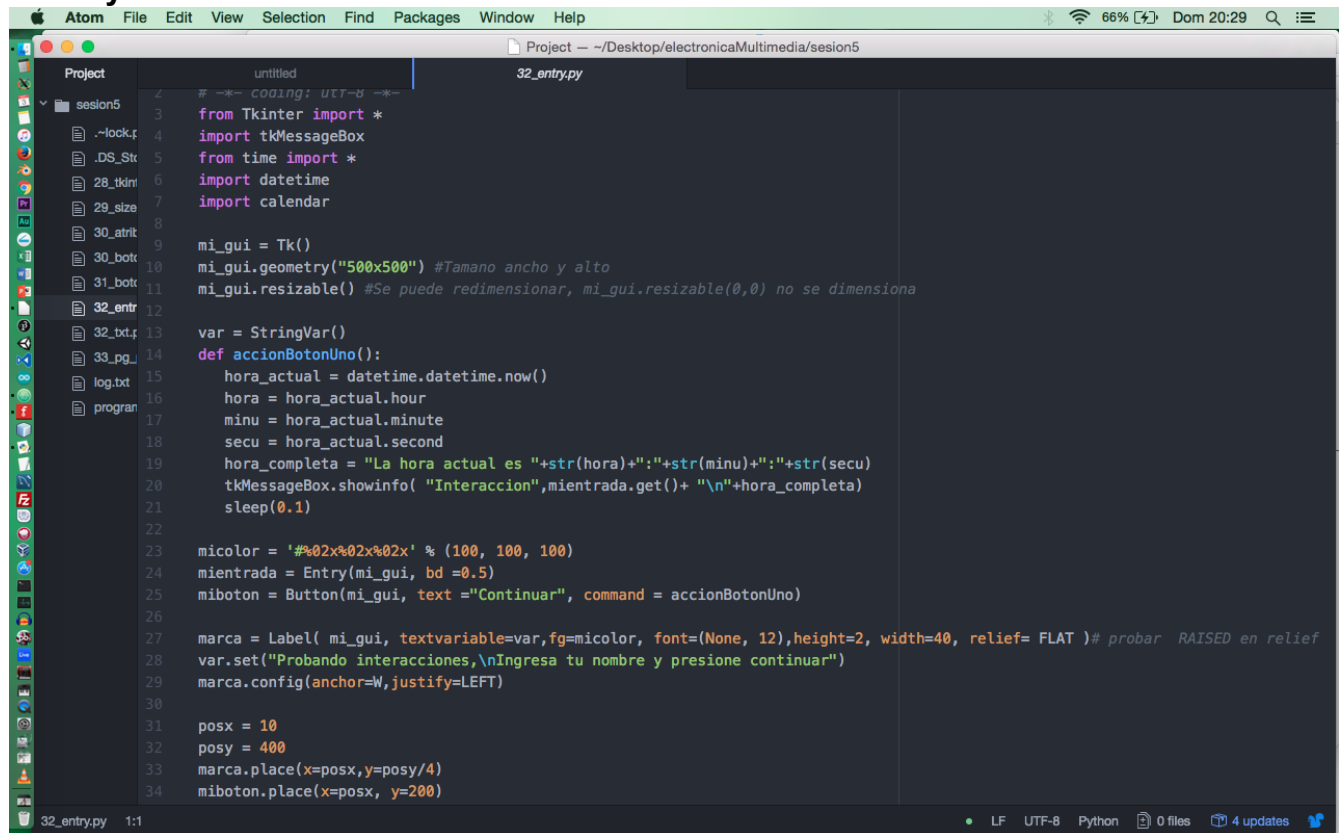
4 import tkinter
5 from time import *
6 import datetime
7
8 import calendar
9
10 mi_gui = Tk()
11 mi_gui.geometry("500x500") #Tamano ancho y alto
12 mi_gui.resizable() #Se puede redimensionar, mi_gui.resizable(0,0) no se dimensiona
13 #mi_tiempo = time.asctime( time.localtime(time.time()) )
14 #mi_tiempob = calendar.month(2017, 9)funcion de calendar
15 #mi_tiemppoc = str(time.time())
16 #mi_tiemppod = strftime("%Y-%m-%d %H:%M:%S", gmtime())
17 fecha = strftime("%Y-%m-%d", gmtime())
18 hora_actual = datetime.datetime.now()
19
20 ano = hora_actual.year
21 mes = hora_actual.month
22 dia = hora_actual.day
23 hora = hora_actual.hour
24 minu = hora_actual.minute
25 secu = hora_actual.second
26 # 2015 5 6 8 53 40
27 hora_completa = "La hora actual es "+str(hora)+":"+str(minu)
28
29 var = StringVar()
30 def accionBotonUno():
31     tkinterMessageBox.showinfo( "Interaccion", ""+hora_completa)
32
33 micolor = '#02x%02x%02x' % (100, 200, 100)
34 miboton = Button(mi_gui, text="Presiona aca para comenzar", command = accionBotonUno)
35
36
```



```
Project — ~/Desktop/electronicaMultimedia/sesion5
31_boton_datos.py

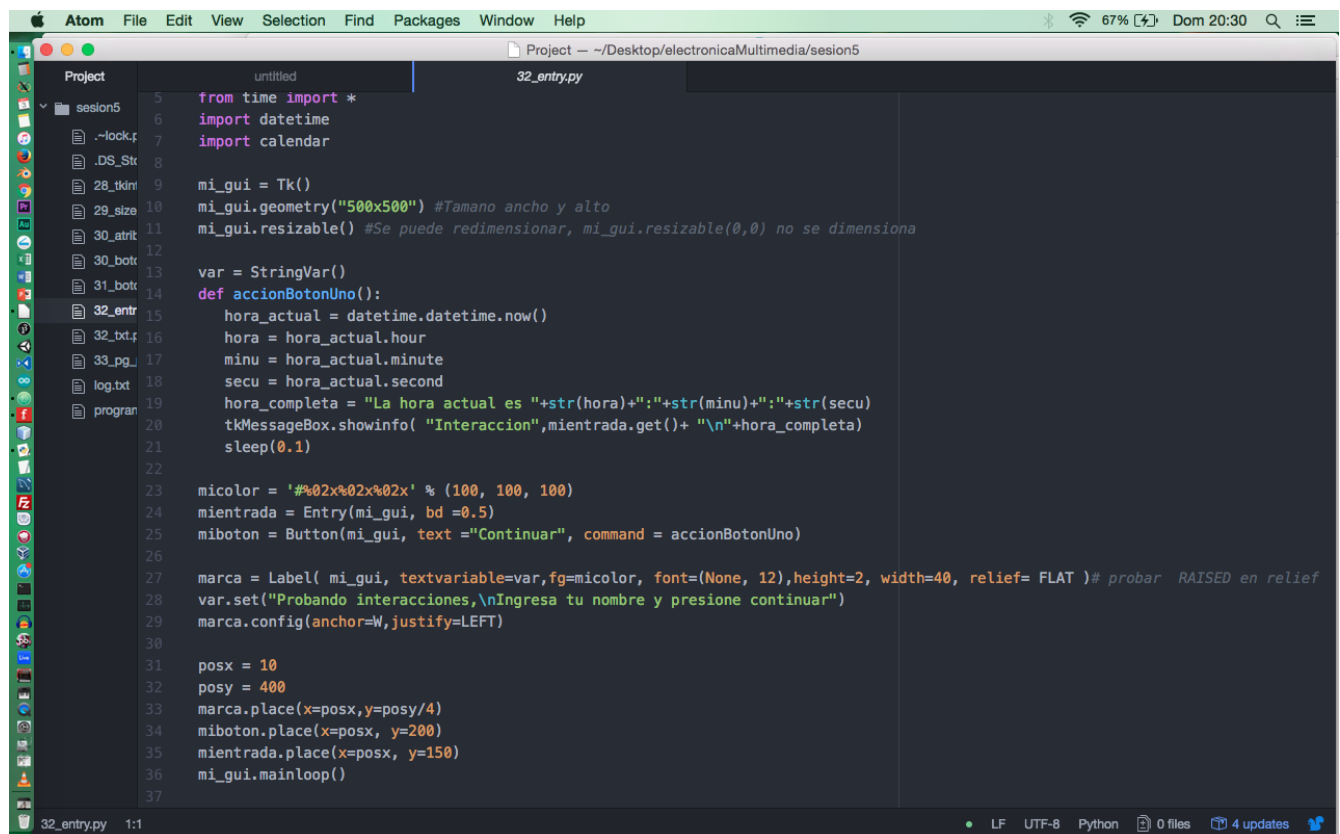
15 #mi_tiemppoc = str(time.time())
16 #mi_tiemppod = strftime("%Y-%m-%d %H:%M:%S", gmtime())
17 fecha = strftime("%Y-%m-%d", gmtime())
18 hora_actual = datetime.datetime.now()
19
20 ano = hora_actual.year
21 mes = hora_actual.month
22 dia = hora_actual.day
23 hora = hora_actual.hour
24 minu = hora_actual.minute
25 secu = hora_actual.second
26 # 2015 5 6 8 53 40
27 hora_completa = "La hora actual es "+str(hora)+":"+str(minu)
28
29 var = StringVar()
30 def accionBotonUno():
31     tkinterMessageBox.showinfo( "Interaccion", ""+hora_completa)
32
33 micolor = '#02x%02x%02x' % (100, 200, 100)
34 miboton = Button(mi_gui, text="Presiona aca para comenzar", command = accionBotonUno)
35
36
37 marca = Label( mi_gui, textvariable=var,fg=micolor, font=(None, 12),height=2, width=30, relief= FLAT )# probar RAISED en relief
38 var.set("Estamos trabajando con Tkinter\nEn el taller de Electronica y multimedia")
39 marca.config(anchor=W,justify=LEFT)
40 posx = 10
41 posy = 400
42 marca.place(x=posx,y=posy)
43 miboton.place(x=posx, y=200)
44
45
46 mi_gui.mainloop()
47
```

32entry



The screenshot shows the Atom editor interface with a project named "Project" located at "~/Desktop/electronicaMultimedia/sesion5". The file "32_entry.py" is open, showing the first 34 lines of code. The code imports Tkinter, tkinter, time, datetime, and calendar. It initializes a Tk() window, sets its geometry to "500x500", and makes it resizable. A StringVar() is created, and a function "accionBotonUno()" is defined. This function gets the current time, formats it as "La hora actual es HH:MM:SS", shows a message box with the time, and sleeps for 0.1 seconds. A Label widget is created with the StringVar, and its text is set to "Probando interacciones, Ingresa tu nombre y presione continuar". The Label is placed at (10, 400) and the button is placed at (10, 200).

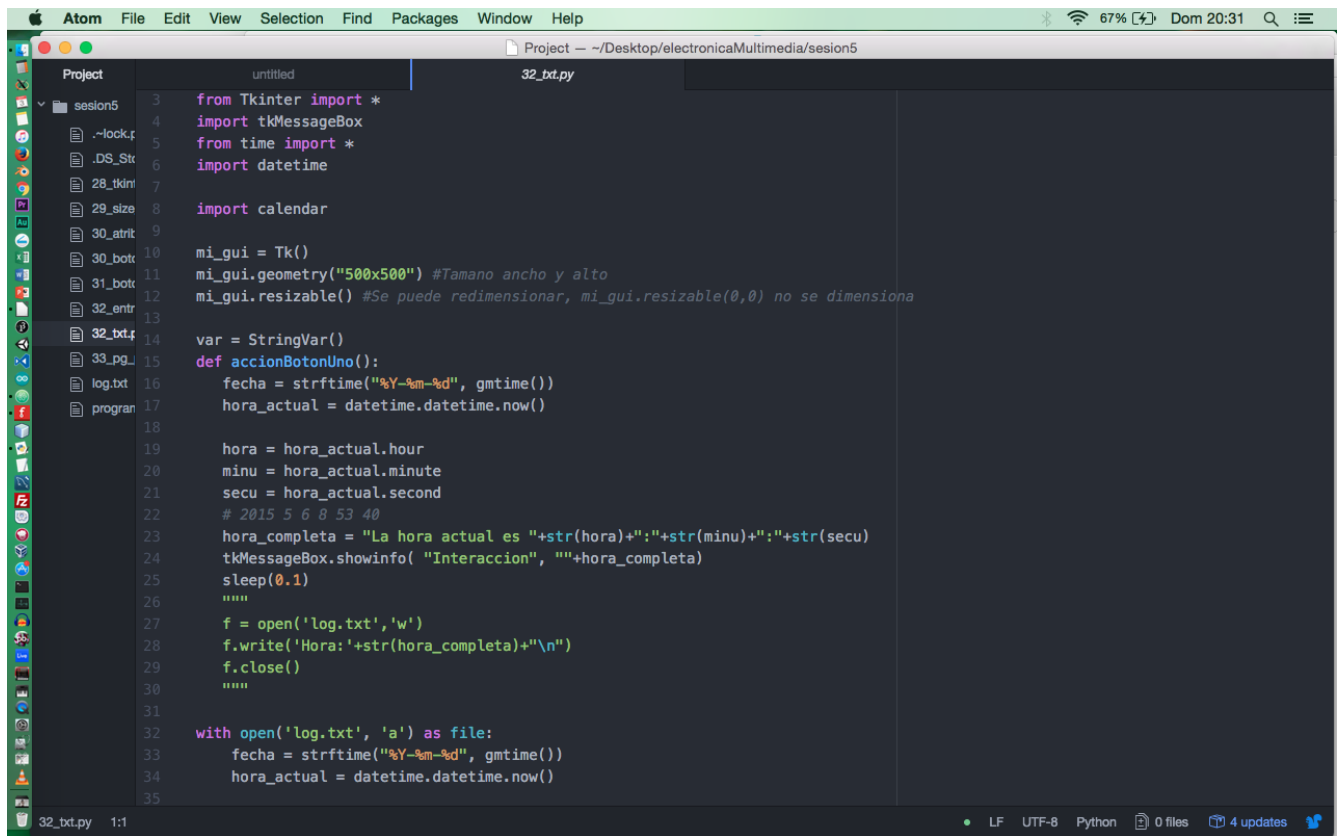
```
1 # -*- coding: utf-8 -*-
2
3 from Tkinter import *
4 import tkinter
5 from time import *
6 import datetime
7 import calendar
8
9 mi_gui = Tk()
10 mi_gui.geometry("500x500") #Tamano ancho y alto
11 mi_gui.resizable() #Se puede redimensionar, mi_gui.resizable(0,0) no se dimensiona
12
13 var = StringVar()
14 def accionBotonUno():
15     hora_actual = datetime.datetime.now()
16     hora = hora_actual.hour
17     minu = hora_actual.minute
18     secu = hora_actual.second
19     hora_completa = "La hora actual es "+str(hora)+":"+str(minu)+":"+str(secu)
20     tkinter.messagebox.showinfo( "Interaccion",mientrada.get()+ "\n"+hora_completa)
21     sleep(0.1)
22
23 micolor = '#02x%02x%02x' % (100, 100, 100)
24 mientrada = Entry(mi_gui, bd =0.5)
25 miboton = Button(mi_gui, text="Continuar", command = accionBotonUno)
26
27 marca = Label( mi_gui, textvariable=var,fg=micolor, font=(None, 12),height=2, width=40, relief= FLAT )# probar RAISED en relief
28 var.set("Probando interacciones,\nIngresa tu nombre y presione continuar")
29 marca.config(anchor=W,justify=LEFT)
30
31 posx = 10
32 posy = 400
33 marca.place(x=posx,y=posy/4)
34 miboton.place(x=posx, y=200)
```



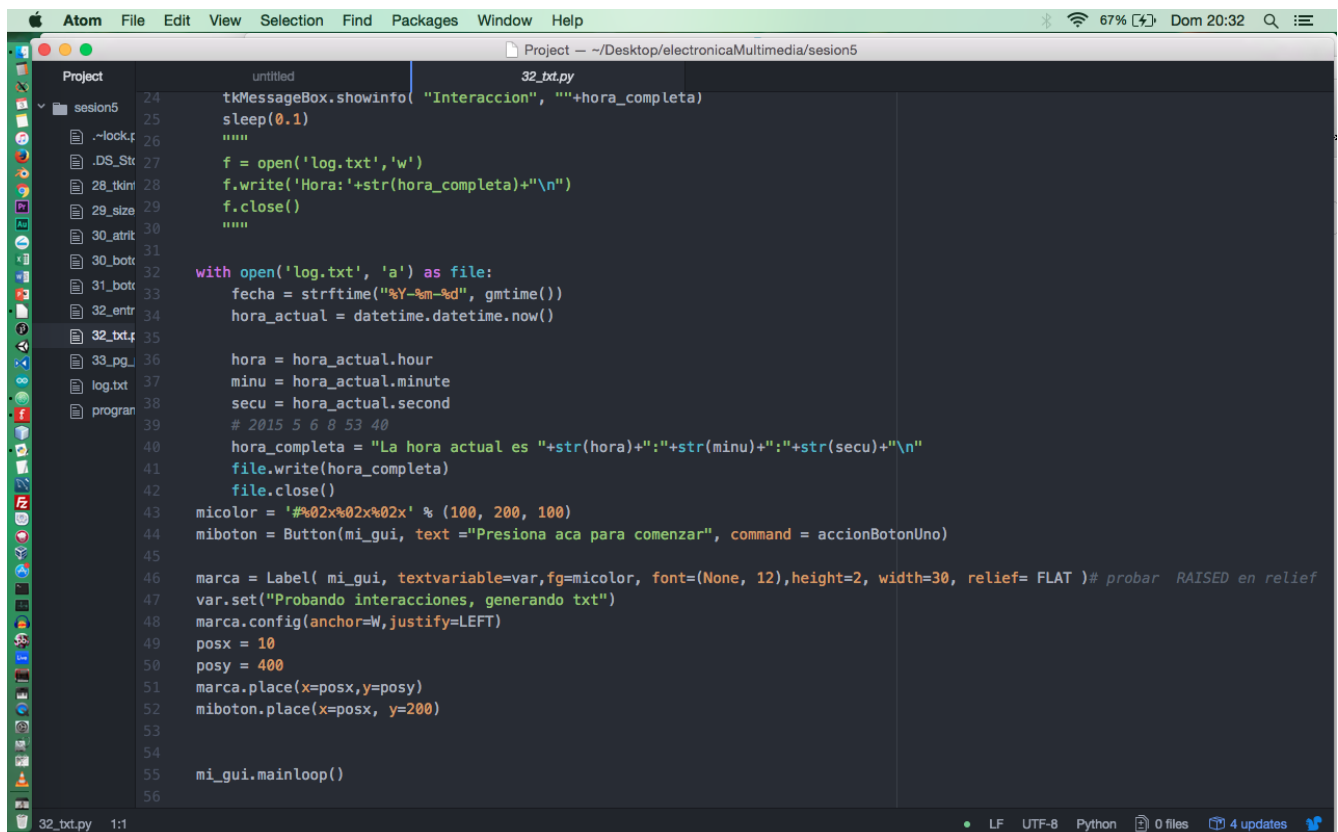
The screenshot shows the Atom editor interface with the same project and file. The code continues from line 35, adding the placement of the Entry widget and the mainloop call.

```
35 mientrada.place(x=posx, y=150)
36 mi_gui.mainloop()
37
```

32txt



```
Atom File Edit View Selection Find Packages Window Help
Project — ~/Desktop/electronicaMultimedia/sesion5
Project
  session5
    32_txt.py
    log.txt
    program
  32_txt.py
32_txt.py
3
from Tkinter import *
4
import tkMessageBox
5
from time import *
6
import datetime
7
8
import calendar
9
10
mi_gui = Tk()
11
mi_gui.geometry("500x500") #Tamano ancho y alto
12
mi_gui.resizable() #Se puede redimensionar, mi_gui.resizable(0,0) no se dimensiona
13
14
var = StringVar()
15
def accionBotonUno():
16
    fecha = strftime("%Y-%m-%d", gmtime())
17
    hora_actual = datetime.datetime.now()
18
19
    hora = hora_actual.hour
20
    minu = hora_actual.minute
21
    secu = hora_actual.second
22
    # 2015 5 6 8 53 40
23
    hora_completa = "La hora actual es "+str(hora)+":"+str(minu)+":"+str(secu)
24
    tkMessageBox.showinfo( "Interaccion", ""+hora_completa)
25
    sleep(0.1)
26
    ""
27
    f = open('log.txt','w')
28
    f.write('Hora:'+str(hora_completa)+"\n")
29
    f.close()
30
    ""
31
32
with open('log.txt', 'a') as file:
33
    fecha = strftime("%Y-%m-%d", gmtime())
34
    hora_actual = datetime.datetime.now()
35
32_txt.py 1:1
LF UTF-8 Python 0 files 4 updates
```



```
Atom File Edit View Selection Find Packages Window Help
Project — ~/Desktop/electronicaMultimedia/sesion5
Project
  session5
    32_txt.py
    log.txt
    program
  32_txt.py
24
tkMessageBox.showinfo( "Interaccion", ""+hora_completa)
25
sleep(0.1)
26
""
27
f = open('log.txt','w')
28
f.write('Hora:'+str(hora_completa)+"\n")
29
f.close()
30
""
31
32
with open('log.txt', 'a') as file:
33
    fecha = strftime("%Y-%m-%d", gmtime())
34
    hora_actual = datetime.datetime.now()
35
36
    hora = hora_actual.hour
37
    minu = hora_actual.minute
38
    secu = hora_actual.second
39
    # 2015 5 6 8 53 40
40
    hora_completa = "La hora actual es "+str(hora)+":"+str(minu)+":"+str(secu)+"\n"
41
    file.write(hora_completa)
42
    file.close()
43
micolor = '#02x%02x%02x' % (100, 200, 100)
44
miboton = Button(mi_gui, text="Presiona aca para comenzar", command = accionBotonUno)
45
46
marca = Label( mi_gui, textvariable=var,fg=micolor, font=(None, 12),height=2, width=30, relief= FLAT )# probar RAISED en relief
47
var.set("Probando interacciones, generando txt")
48
marca.config(anchor=W,justify=LEFT)
49
posx = 10
50
posy = 400
51
marca.place(x=posx,y=posy)
52
miboton.place(x=posx, y=200)
53
54
55
mi_gui.mainloop()
56
32_txt.py 1:1
LF UTF-8 Python 0 files 4 updates
```

