

# Programming for AI

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BS(AI)-IV

Changing the  
properties  
using  
dictionary  
method and  
config method

```
from tkinter import *

window = Tk()
window.title("My First GUI Program")
window.minsize(width=500, height=300)

#Label

my_label = Label(text="I Am a Label", font=("Arial", 24, "bold"))
my_label.pack(side="left")

my_label["text"] = "New Text"
my_label.config(text="New Text")

#Button

button = Button(text="Click Me")
button.pack()
```

## Adding event handler

```
#Button

def button_clicked():
    print("I got clicked")

button = Button(text="Click Me", command=button_clicked)
button.pack()
```

# Input Field

```
#Entry  
  
input = Entry(width=10)  
input.pack()  
print(input.get())
```

Pack has  
following  
properties

`padx=` horizontal space  
before the widget

`pady=` vertical space after  
the widget

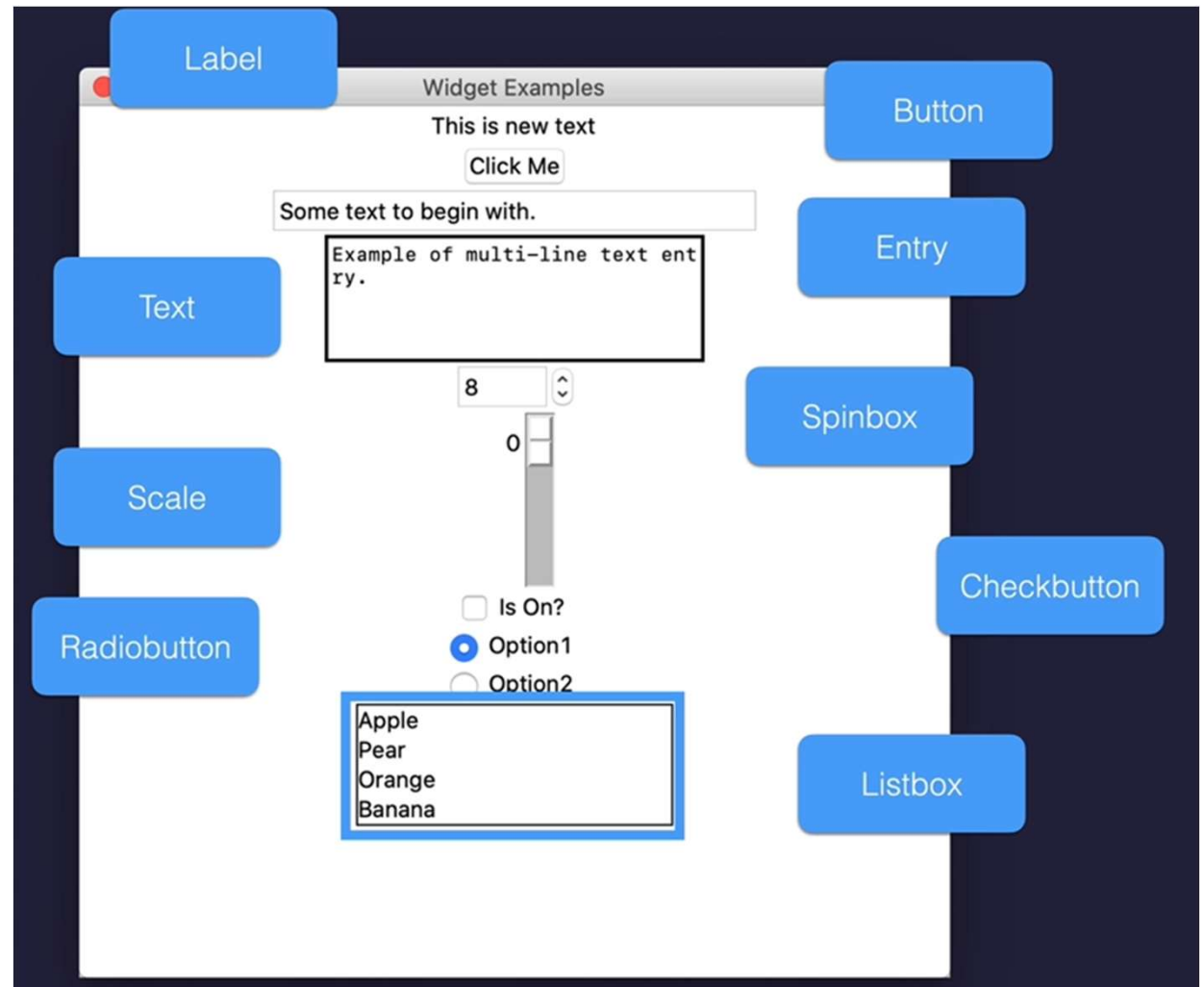
`side:` left/right/top/bottom

Task: Add an  
Event handler  
method

Type something in  
input field

Clicking on button will  
change the label text to  
Input field text

# Some other Widgets



# Text Widget



```
text=Text(height=30, width=40)
```



```
text.focus(),
```



```
text.insert(END, "Example")
```



```
text.get("1.0",END) //Starting from first  
line at character zero
```



# Spin Box

```
def spin_get():  
    print(spin.get())
```

```
spin=Spinbox(from_=0, to=15, width=5, command=spin_get)  
spin.pack()
```

# Scale

```
def scale_get(value):  
    print(value)
```

```
scale=Scale(from_=0, to=15, width=5, command=scale_get)  
scale.pack()
```

# Check Box

```
def get_State():  
    print(checked_state.get())
```

```
checked_state=IntVar()
```

```
checkb=Checkbutton(text="Yes",variable=checked_state,  
command=get_State)  
checkb.pack()
```

# Radio Button

```
def get_State():  
    print(radio_state.get())
```

```
radio_state=IntVar()
```

```
radiob1=Radiobutton(text="Male", value=1 ,variable=radio_state, command=get_State)
```

```
radiob2=Radiobutton(text="Male", value=2 ,variable=radio_state, command=get_State)
```

```
radiob1.pack()
```

```
radiob2.pack()
```

# List Box

```
def listbox_used(event):  
    # Gets current selection from listbox  
    print(listbox.get(listbox.curselection()))  
  
listbox = Listbox(height=4)  
fruits = ["Apple", "Pear", "Orange", "Banana"]  
for item in fruits:  
    listbox.insert(fruits.index(item), item)  
listbox.bind("<<ListboxSelect>>",  
listbox_used)  
listbox.pack()  
window.mainloop()
```