

```
""" widgetDemo.py
    TK widget demo
    Demonstrates all major TK widgets
    """
```

```
from Tkinter import *
from tkMessageBox import *
import tkColorChooser
```

```
class App(Tk):
```

```
    def __init__(self):
```

```
        Tk.__init__(self)
```

```
        Label(self, text = "Button").grid(row = 0, column = 0)
```

```
        self.btnButton = Button(self, text = "Show Values", command = self.showVals)
```

```
        self.btnButton.grid(row = 0, column = 1)
```

```
        Label(self, text = "Checkbutton").grid(row = 1, column = 0)
```

```
        self.checkVar = IntVar()
```

```
        self.chkCheck = Checkbutton(self, text = "Check Button",
                                     variable = self.checkVar)
```

```
        self.chkCheck.grid(row = 1, column = 1)
```

```
        Label(self, text = "Entry").grid(row = 2, column = 0)
```

```
        self.txtEntry = Entry(self)
```

```
        self.txtEntry.grid(row = 2, column = 1)
```

```
        Label(self, text = "Listbox").grid(row = 3, column = 0)
```

```
        self.lstList = Listbox(self, height = 3)
```

```
        self.lstList.grid(row = 3, column = 1)
```

```
        self.lstList.insert(END, "one", "two", "three")
```

```
        Label(self, text = "Text").grid(row = 4, column = 0)
```

```
        self.txtText = Text(self, height = 4, width = 25)
```

```
        self.txtText.grid(row = 4, column = 1)
```

```
        self.txtText.insert(1.0, "text \ngoies \nhere...")
```

```
        self.radVar = IntVar()
```

```
        Label(self, text = "Radio Buttons").grid(row = 5, rowspan = 2)
```

```
        self.radRadio1 = Radiobutton(self, text = "one", variable = self.radVar, value = 1)
```

```
        self.radRadio2 = Radiobutton(self, text = "two", variable = self.radVar, value = 2)
```

```
        self.radRadio1.grid(row = 5, column = 1)
```

```
        self.radRadio2.grid(row = 6, column = 1)
```

```
        #self = scrVar = IntVar()
```

```
        Label(self, text = "Scale").grid(row = 7, column = 0)
```

```
        self.scrScale = Scale(self, orient = HORIZONTAL, to = 255)
```

```
        self.scrScale.grid(row = 7, column = 1)
```

```
        Label(self, text = "Spinbox").grid(row = 8, column = 0)
```

```
        self.spnSpin = Spinbox(self, values = ("one", "two", "three"))
```

```
        self.spnSpin.grid(row = 8, column = 1)
```

```
Label(self, text = "Message Box").grid(row = 9, column = 0)
self.btnMessage = Button(self, text = "click for dialogs")
self.btnMessage["command"] = self.showMessage
self.btnMessage.grid(row = 9, column = 1)
```

```
Label(self, text = "Top Level").grid(row = 10, column = 0)
self.btnTop = Button(self, text = "click for new window")
self.btnTop["command"] = self.showTop
self.btnTop.grid(row = 10, column = 1)
```

```
self.mainloop()
```

```
def showMessage(self):
    showinfo("Info", "I'm an info box")
    result = askquestion("question", "Are we having fun yet?")
    showinfo("", "You said %s." % result)
    newColor = tkColorChooser.askcolor()
    self["bg"] = newColor[1]
```

```
def showTop(self):
    self.newWindow = Toplevel(self)
    Label(self.newWindow, text = "Hi there").grid()
    self.newWindow.grid()
```

```
def showVals(self):
    """ demonstrate how to get copy from the major elements """
    #get a value from the check box
    if self.checkVar.get() == 1:
        print "checkbox is checked"
    else:
        print "checkbox is not checked"
```

```
#get a value from an entry field
print "Entry contains this: %s" % self.txtEntry.get()
```

```
#get the currently selected item in the list box
selected = self.lstList.curselection()
if selected == ():
    print "nothing selected"
else:
    selValue= self.lstList.get(selected[0])
    print "List box: %s) %s" % (selected[0], selValue)
```

```
#get the contents of the text area
print "text:"
print self.txtText.get(1.0, END)
```

```
#get the radio button value
print "radio: %s" % self.radVar.get()
```

```
#get the scale's value
print "scale: %d" % self.scrScale.get()
```

```
#get the spinbox's value  
print "spin: %s" % self.spnSpin.get()
```

```
def main():  
    app = App()
```

```
if __name__ == "__main__":  
    main()
```

```
""" textEdit.py
    a simple text editor in python / tkinter
"""
```

```
from Tkinter import *
import tkFileDialog
```

```
class Editor(Tk):
    def __init__(self):
        Tk.__init__(self)
        self.title("Text editor")

        menubar = Menu(self, tearoff = 0)
        self.config(menu = menubar)

        fileMenu = Menu(menubar)
        menubar.add_cascade(label = "File", menu = fileMenu)

        fileMenu.add_command(label = "New", command = self.new)
        fileMenu.add_command(label = "Save As", command = self.saveAs)
        fileMenu.add_command(label = "Open", command = self.open)
        fileMenu.add_command(label = "Exit", command = self.quit)

        self.textArea = Text(self)
        self.textArea.grid()

        self.mainloop()

    def new(self):
        self.textArea.delete(1.0, END)

    def saveAs(self):
        file = tkFileDialog.asksaveasfile()
        content = self.textArea.get(1.0, END)
        file.write(content)
        file.close()

    def open(self):
        file = tkFileDialog.askopenfile()
        text = ""
        for line in file:
            text += line

        self.new()
        self.textArea.insert(1.0, text)
        file.close()

def main():
    e = Editor()

if __name__ == "__main__":
    main()
```