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**Roll No.:** 69

# **Experiment No.12:**

Aim: Write a python program to implement GUI Tools, using Tkinter.

# **Code and Output:**

## 1. Title:

```
import tkinter as tk

window = tk.Tk()
window.title("Title Example")

window.mainloop()

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```

## 2. Label:

```
import tkinter as tk

window = tk.Tk()
window.title("Label Example")

label = tk.Label(window, text="Hello, World!")
label.pack()

window.mainloop()
```

## 3. Button:

```
import tkinter as tk

lusage

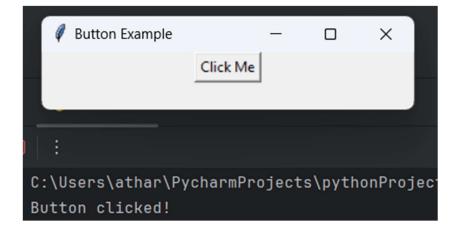
def button_clicked():
    print("Button clicked!")

window = tk.Tk()
window.title("Button Example")

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

window.mainloop()

window.mainloop()
```



#### 4. Check Button:

```
import tkinter as tk

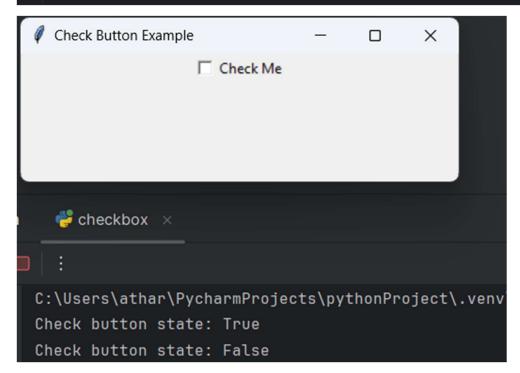
lusage

def check_button_clicked():
    print("Check button state:", var.get())

window = tk.Tk()
window.title("Check Button Example")

var = tk.BooleanVar()
check_button = tk.Checkbutton(window, text="Check Me", variable=var, command=check_button_clicked)
check_button.pack()

window.mainloop()
```



## 5. Entry

```
import tkinter as tk

lusage

def entry_submitted():
    print("Entered text:", entry.get())

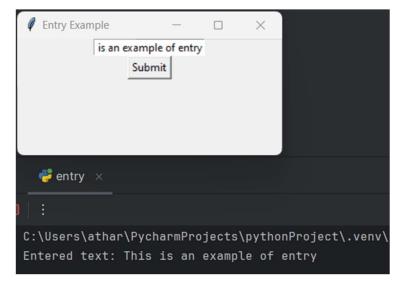
window = tk.Tk()

window.title("Entry Example")

entry = tk.Entry(window)
entry.pack()

submit_button = tk.Button(window, text="Submit", command=entry_submitted)
submit_button.pack()

window.mainloop()
```



## 6. Message

```
import tkinter as tk

window = tk.Tk()
window.title("Message Example")

message = tk.Message(window, text="This is a message widget.")
message.pack()

window.mainloop()

under tk.Tk()
window.title("Message Example")

message = tk.Message(window, text="This is a message widget.")

message.pack()
```

```
Message Example

This is a message widget.
```

## 7. Radio Button

```
import tkinter as tk

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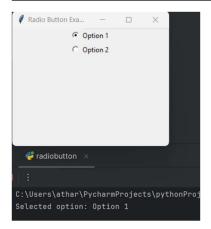
def radio_button_selected():
    print("Selected option:", var.get())

window = tk.Tk()

window.title("Radio Button Example")

var = tk.StringVar()
radio_button1 = tk.Radiobutton(window, text="Option 1", variable=var, value="Option 1", command=radio_button_selected)
radio_button2 = tk.Radiobutton(window, text="Option 2", variable=var, value="Option 2", command=radio_button_selected)
radio_button2 = tk.Radiobutton(window, text="Option 2", variable=var, value="Option 2", command=radio_button_selected)
radio_button2.pack()

window.mainloop()
```



#### 8. Text

```
import tkinter as tk

window = tk.Tk()
window.title("Text Example")

text = tk.Text(window)
text.pack()

window.mainloop()
```

## 9. Scroll bar and Listbox

```
import tkinter as tk

window = tk.Tk()
window.title("Listbox Example")

scrollbar = tk.Scrollbar(window)
scrollbar.pack(side=tk.RIGHT, fill=tk.Y)

listbox = tk.Listbox(window, yscrollcommand=scrollbar.set)
for i in range(50):
    listbox.insert(tk.END, *elements: "Item " + str(i))

listbox.pack(side=tk.LEFT, fill=tk.BOTH)

scrollbar.config(command=listbox.yview)

window.mainloop()
```

```
Listbox Exa...
                             Item 0
Item 1
Item 2
Item 3
Item 4
Item 5
Item 6
Item 7
Item 8
Item 9
Item 10
Item 11
Item 12
Item 13
Item 14
```

## 10. SpinBox:

```
import tkinter as tk

lusage

def spin_box_changed():
    print("Selected value:", spin_box.get())

window = tk.Tk()
window.title("Spin Box Example")

spin_box = tk.Spinbox(window, from_=0, to=10, command=spin_box_changed)
spin_box.pack()

window.mainloop()
```

## 11. Canvas

```
import tkinter as tk

window = tk.Tk()
window.title("Canvas Example")

canvas = tk.Canvas(window, width=200, height=100, bg="white")

canvas.pack()

canvas.create_rectangle(50, 25, 150, 75, fill="blue")

window.mainloop()

window.mainloop()
```

