Chapter 9 GUI Programming Using Tkinter

```
1
     Turtle can be used for drawing graphics and Tkinter can be used developed
     comprehensive GUI projects.
2
     Use Tk() to create an object for window.
3
   The statement creates an event loop for processing events.
4
     The parent container such as a window or frame.
5
     To specify a callback function for processing the event on the
widget.
6
     Label(parent, text = "Welcome", fg = "white", bg = "red")
7
     Button(parent, text = "OK", fg = "white", bg = "red",
command = processOK)
8
     Checkbutton(parent, text = "apple", fg = "white", bg =
"red", variable = v1, command = processApple)
9
     Radiobutton(parent, text = "senior", fg = "white", bg =
"red", variable = v1, command = processSenior)
10
     Entry(parent, textvariable = v1, fg = "white", bg = "red")
11
     Message (parent, text = "programming is fun", fg = "white",
bq = "red")
12
     import tkinter
     print(LEFT)
```

```
13
     canvas.create line(34, 50, 50, 90)
14
     canvas.create rectangle (70 - 50, 70 - 50, 70 + 50, 70 + 50,
fill = "red")
15
     canvas.create oval(70 - 100, 70 - 50, 70 + 100, 70 + 50,
fill = "red")
16
     canvas.create arc(10, 10, 80, 80, start = 30, extent = 45)
17
     canvas.create polygon(10, 10, 15, 30, 140, 10, 10, 100)
18
   The width argument can be used to specify the pen size in
pixels for drawing the shapes.
19
   The arrow argument can be used with create line to draw an
arrowed line. The arrow can appear at the start, end, or both
ends of the line with argument value "first", "end", or "both".
20
   The activefill argument makes the shape change color when you
move the mouse over it.
21
Should be
       button.pack(side = LEFT)
22
     Grid geometry manager
23
     Place manager is platform-dependent.
24
     import tkinter
```

```
print(X)
25
  Only the GIF format is supported.
26
  Should be
image = PhotoImage(file = "image/us.gif")
27
image = PhotoImage(file = "c:\\pybook\\image\canada.gif")
28
  # Create a menu bar
  menubar = Menu(window)
  window.config(menu = menubar) # Display the menu bar
29
     menu.post(event.x_root, event.y_root)
30
     canvas.bind("<Button-1>", p)
What is event for moving the mouse while pressing the right-mouse
button?
<Bi-Motion>
32
What is event for clicking the left-mouse button twice?
<Double-Button-1>
33
What is event for clicking the middle-mouse button three times?
<Tripple-Button-2>
34
What argument is automatically passed to an event-handling
function?
event
```

```
35
How do you get the current mouse location from the event object?
event.x and event.y
36
How do you get the key character from the event object?
event.char
37
canvas.sleep(milliseconds)
38
canvas.update()
39
Text, Canvas, Listbox
40
Here is an example to associate a Text with a scrollbar.
         text = Text(frame1, width = 40, height = 10, wrap = WORD,
                  yscrollcommand = scrollbar.set)
         text.pack()
         scrollbar.config(command = text.yview)
41
     tkinter.messagebox.showinfo("showinfo", "Welcome to Python")
42
  age = tkinter.simpledialog.askinteger(
     "askinteger", "Enter your ages")
  print(age)
  weight = tkinter.simpledialog.askfloat(
     "askfloat", "Enter your weight")
  print(weight)
  name = tkinter.simpledialog.askstring(
     "askstring", "Enter your name")
  print(name)
```