

Austin Stroud

For the documentation of source code, I just am copying the code into a Word document that shows all my comments in red within it:

""""

Author: Austin Stroud

Date written: 05/6/2023

Assignment: Module 8 Final Project

Short Desc: A GUI program takes input from the user and tracks prizes selected for participation in a library reading program.

""""

#import tkinter, imaging library, webbrowser, and messagebox

from tkinter import *

from PIL import ImageTk, Image

from tkinter import messagebox

import webbrowser

#Creates a tkinter window object and sets its size and title

reading = Tk()

reading.geometry("700x500")

reading.title("Summer reading prize app")

#Creates labels and entry boxes to collect user information

name_label = Label(reading, text="What is your name? ")

name_label.grid(row=0, column=0)

name_entry = Entry(reading, width=30)

name_entry.grid(row=0, column=1)

address_label = Label(reading, text="What is your address? ")

Austin Stroud

```
address_label.grid(row=1, column=0)
```

```
address_entry = Entry(reading, width=30)
```

```
address_entry.grid(row=1, column=1)
```

```
phone_label = Label(reading, text="What is your phone number? ")
```

```
phone_label.grid(row=2, column=0)
```

```
phone_entry = Entry(reading, width=30)
```

```
phone_entry.grid(row=2, column=1)
```

```
email_label = Label(reading, text="What is your email address? ")
```

```
email_label.grid(row=3, column=0)
```

```
email_entry = Entry(reading, width=30)
```

```
email_entry.grid(row=3, column=1)
```

```
# Creates a list of possible prizes and a listbox to display them
```

```
my_reading_list = ["ink pen", "magnet", "canvas bag", "button", "bookmark"]
```

```
my_reading_list.insert(0, "select a participation prize")
```

```
print(my_reading_list)
```

```
reading_list = Listbox(reading, bg="yellow", fg="red")
```

```
reading_list.grid(row=4, column=1)
```

```
#Populates the listbox with the possible prizes
```

```
for item in my_reading_list:
```

```
    reading_list.insert(END, item)
```

Austin Stroud

#Defines a function to add selected prizes to a label

```
def add_reading():  
    result = ""  
  
    for item in reading_list.curselection():  
        result = result + str(reading_list.get(item)) + "\n"  
  
    add_lbl.config(text="Your Prize Selection: " + "\n" + result)
```

#Creates a label to display the user's selected prizes

```
add_lbl = Label(reading, text="")  
add_lbl.grid(row=5, column=1)
```

#Creates a button to trigger the add_reading function

```
add_button = Button(reading, text="Add Prize" , command= add_reading)  
add_button.grid(row=5, column=0)
```

#Defines a function to display the user's information upon clicking a checkout

```
def check():  
  
    text1 = name_entry.get()  
    new_lbl = Label(reading, text="Name: " + text1)  
    new_lbl.grid(row=5, column=2)  
  
    text2 = address_entry.get()  
    new_lbl2 = Label(reading, text="Address: " + text2)  
    new_lbl2.grid(row=6, column=2)  
  
    text3 = phone_entry.get()  
    new_lb3 = Label(reading, text="Phone Number: " + text3)  
    new_lb3.grid(row=7, column=2)
```

Austin Stroud

```
text4 = email_entry.get()
new_lb4 = Label(reading, text="Email Address: " + text4)
new_lb4.grid(row=8, column=2)
```

#Creates a button to trigger the check function and display user's information

```
check_button = Button(reading, text="Checkout Prize" , command=check)
check_button.grid(row=6, column=0)
```

#Defines a function to remove selected prizes from the listbox

```
def deleteme():
    reading_list.delete(0,1)
```

```
del_button = Button(reading, text="Delete Prize", command=deleteme)
del_button.grid(row=7, column=0)
```

#Option menu to select a grand prize drawing

```
drawingprizes = StringVar()
drawingprizes.set("Choose a grand prize drawing.")
```

```
drawingprizes = OptionMenu(reading, drawingprizes, "Indians Tickets", "Colts Tickets", "State Park Pass",
"Museum Pass", "State Fair Pass", "Gas Card")
drawingprizes.grid(row=8, column=0)
```

#Code for the images in the application

```
reading_pic = ImageTk.PhotoImage(Image.open("books2.jpg"))
pic_lbl = Label(reading, image=reading_pic, text="books")
pic_lbl.grid(row=1, column=6)
```

Austin Stroud

```
reading_pic2 = ImageTk.PhotoImage(Image.open("ribbon.png"))
pic_lbl = Label(reading, image=reading_pic2, text="ribbon")
pic_lbl.grid(row=8, column=1)
```

Defines a function to access the GitHub Repository in a web browser window

```
def open_github():
    webbrowser.open_new('repositorylink.html')

button = Button(reading, text="Open GitHub Repository", command=open_github)
button.grid(row=9, column=0)
```

#Defines a function to exit the application

```
def exit():
    answer = messagebox.askyesno("Hi", "Are you sure you want to exit? ")
    if answer == 1:
        reading.destroy()
    else:
        return
```

```
exit_button = Button(reading, text="Exit", command=exit)
exit_button.grid(row=4, column=6)
```

#Start the main event loop

```
reading.mainloop()
```