

```

1  #Simple Checklist
2  import tkinter
3  from tkinter import END, ANCHOR
4
5  #Define window
6  root = tkinter.Tk()
7  root.title('Simple Checklist')
8  root.iconbitmap('check.ico')
9  root.geometry('400x400')
10 root.resizable(0,0)
11
12 #Define fonts and colors
13 my_font = ('Times New Roman', 12)
14 root_color = '#6c1cbc'
15 button_color = '#e2cfff'
16 root.config(bg=root_color)
17
18 #Define functions
19 def add_item():
20     """Add an individual item to the listbox"""
21     my_listbox.insert(END, list_entry.get())
22     list_entry.delete(0, END)
23
24
25 def remove_item():
26     """Remove the selected (ANCHOR) item from the listbox"""
27     my_listbox.delete(ANCHOR)
28
29
30 def clear_list():
31     """Delete all items from the listbox"""
32     my_listbox.delete(0, END)
33
34
35 def save_list():
36     """Save the list to a simple txt file"""
37     with open('checklist.txt', 'w') as f:
38         #listbox.get() returns a tuple....
39         list_tuple = my_listbox.get(0, END)
40         for item in list_tuple:
41             #Take proper precautions to include only one \n for formatting purposes
42             if item.endswith('\n'):
43                 f.write(item)
44             else:
45                 f.write(item + "\n")
46
47
48 def open_list():
49     """Open the list upon starting the program if there is one"""
50     try:
51         with open('checklist.txt', 'r') as f:
52             for line in f:
53                 my_listbox.insert(END, line)
54     except:
55         return
56
57
58 #Define layout
59 #Create frames
60 input_frame = tkinter.Frame(root, bg=root_color)
61 output_frame = tkinter.Frame(root, bg=root_color)
62 button_frame = tkinter.Frame(root, bg=root_color)
63 input_frame.pack()
64 output_frame.pack()
65 button_frame.pack()
66
67 #Input frame layout

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68 list_entry = tkinter.Entry(input_frame, width=35, borderwidth=3, font=my_font)
69 list_add_button = tkinter.Button(input_frame, text="Add Item", borderwidth=2,
font=my_font, bg=button_color, command=add_item)
70 list_entry.grid(row=0, column=0, padx=5, pady=5)
71 list_add_button.grid(row=0, column=1, padx=5, pady=5, ipadx=5)
72
73 #Output frame layout
74 my_scrollbar = tkinter.Scrollbar(output_frame)
75 my_listbox = tkinter.Listbox(output_frame, height=15, width=45, borderwidth=3,
font=my_font, yscrollcommand=my_scrollbar.set)
76 #Link scrollbar to listbox
77 my_scrollbar.config(command=my_listbox.yview)
78 my_listbox.grid(row=0, column=0)
79 my_scrollbar.grid(row=0, column=1, sticky="NS")
80
81 #Button Frame layout
82 list_remove_button = tkinter.Button(button_frame, text="Remove Item", borderwidth=2,
font=my_font, bg=button_color, command=remove_item)
83 list_clear_button = tkinter.Button(button_frame, text='Clear List', borderwidth=2,
font=my_font, bg=button_color, command=clear_list)
84 save_button = tkinter.Button(button_frame, text='Save List', borderwidth=2,
font=my_font, bg=button_color, command=save_list)
85 quit_button = tkinter.Button(button_frame, text='Quit', borderwidth=2, font=my_font,
bg=button_color, command=root.destroy)
86 list_remove_button.grid(row=0, column=0, padx=2, pady=10)
87 list_clear_button.grid(row=0, column=1, padx=2, pady=10, ipadx=10)
88 save_button.grid(row=0, column=2, padx=2, pady=10, ipadx=10)
89 quit_button.grid(row=0, column=3, padx=2, pady=10, ipadx=25)
90
91 #Open the previous list if available
92 open_list()
93
94 #Run the root window's main loop
95 root.mainloop()
96

```