

13CSI_Assessment Testing

AS3.7_(91906)v1 - 6 Credits

Use complex programming techniques to develop a computer program

Testing table

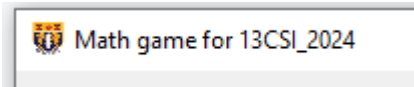
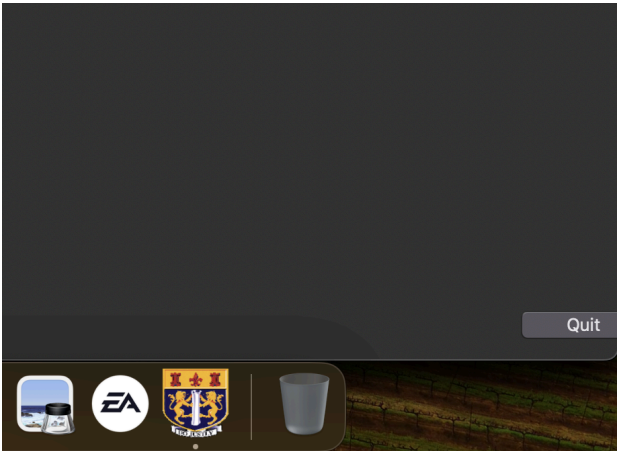
Minimal tests 4 expected for Achieved

Plus 3 Boundary + PEP8 Conventions followed with evidence checked for Merit

Plus 6 Comprehensive including a minimum of 4 Invalid (Error Catching) and 3 other Tests could be more Boundary or Expected Tests for Excellence

For Excellence: Students must be providing further evidence of debugging to ensure the specified functionalities (working parts) are met for their final program versions. Comprehensively testing and debugging the program means testing is very thorough.


State if the variable is global in the 'Variable tested' column.

Test Table				
Test type	Variable tested	How tested. Data used to test.	Expected output	Actual output (Screenshot as evidence)
Expected	Icon	Should show the Tawa College emblem	Should show the Tawa College emblem	
Expected	Quit Button	Should look nice, be aligned and clickable	Close window on press	 <p>Poorly aligned, closes the window on click, needs iteration</p>

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				<div></div> <p>Better. It could use overall theming.</p>
Expected	username	Logan	Should proceed with the game after a button press	<div><p>Welcome to Logan's Math game!</p><p>Please enter your name</p><div><div>Logan</div></div><p>Submit Name</p></div> <p>Works, goes to level select</p>

Expected	difficulty	Button press	Clicked any of the buttons and show a question	<div><div>Math game for 13CSI_2024</div><div><div>Easy</div><div>Medium</div><div>Hard</div><div>Impossible</div></div></div> <div>Easy button press</div> <div><div>Math game for 13CSI_2024</div><div>What is 3*9?</div><div></div><div>Submit Answer</div></div>
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Boundary	username	LS (two chars) (L doesnt work), (LTS does)	Allows, it is between 2 - 15 char and alpha chars	<div><p>Your name needs to be bewteen 2 and 15 chars, and only including latin chars</p><p>OK</p><p>Submit Name</p></div> <div>Didn't work; Fixed promptly</div> <pre>value = box.get().strip().title().replace("-", "") if value.isalpha() and 2 <= len(value) <= 15: username = value</pre>
Boundary	Welcome text	Visual Inspection	Should be centered horizontally	<div>Welcome to Logan's Math game!</div> <div>Please enter your name</div> <div><input type="text"/></div>

				<div>Welcome to Logan's Quiz!</div> <div>Please enter your name</div> <div><input type="text"/></div> <div>Submit Name</div> <div>Mathematically centered. Done using relx=0.45 + relwidth=0.1. Pythonic error in Tkinter.</div>
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				<div>Welcome to Logan's Quiz!</div> <div>Please enter your name</div> <div><input type="text"/></div> <div>Submit Name</div> <div>Works again, (light mode is non issue as this test is in v10)</div>
Boundary	Level select	Visual inspection	Should be centered	<div>Math game for 13CSI_2024</div> <div>Easy</div> <div>Medium</div> <div>Hard</div> <div>Impossible</div> <div>Too close to each other, needs padding</div>

				<div><div>Math game for 13CSI_2024</div><div><div>Easy</div><div>Medium</div><div>Hard</div><div>Impossible</div></div></div> <p>Using rel* again. Soft limit of max buttons introduced. Could be addressed in another version, but not needed as only 2 levels with 5 questions each is needed.</p> <p>REVERTED CHANGE: The math used in rel* doesn't work on a second run-through due to unavoidable automatic caching</p>
	username_entry	16 character's both monospace and wide	min of 15 chars per box	

				<div>Welcome to Logan's Quiz! Please enter your name mmmmmmmmmmmmmmmmmmmm</div> <div>Welcome to Logan's Quiz! Please enter your name logansimonsenas</div> <div>Test passed, worked with monospace and full-size fonts, no change needed</div>
	answer	undefined (all lower case, the answer from the file is Undefined)	should be fine	<div>Unlucky! You got it wrong Next?</div> <div>Failed, undefined != Undefined Math game for 13CSI_2024 Good Job! You got it right! Next?</div>

				Fixed. Variations include uNDEFINED & UnDeFiNeD that work
PEP8 Evidence	<ul style="list-style-type: none">Following conventions for the chosen programming languageNo errors when code tested in https://codewof.co.nz/Screenshot Evidence of your codewof testing below under “Before” AND “After”			
PEP8 - Before	<div><div><div>Your code</div><div><pre>212 label.place(relx=0.45, rely=0.25, relwidth=0.5) 213 # User input handling 214 box = ttk.Entry(root) 215 box.place(relx=0.45, rely=0.3, relwidth=0.1) 216 217 submit = ttk.Button(root, text="Submit Name") 218 submit.place(relx=0.45, rely=0.5, relwidth=0.1) 219 220 clear_div() 221 gather_data(source_file) 222 current_question: int = 0 223 root.state("zoomed") 224 end = ttk.Button(root, text="Quit", command=leave) 225 end.place(relx=0.95, rely=0.95) 226 getusername() 227 root.mainloop() 228 229 230 if __name__ == "__main__": 231 main() 232</pre></div><div><div>Load example</div><div>Restart</div></div></div><div><div>Privacy notice: Your code is anonymously stored on our website for analysis and</div><div>that is not deleted. The source code is not stored on our server.</div></div><div><div>24 style issues found</div><div>Click a style issue to see where it occurs in your code.</div><div><div>Line 33 - Issue code: E501</div><div>Line is longer than 79 characters.</div><div>You should rewrite your long line of code by breaking it down across multiple lines.</div><div>By making sure your lines of code are not too complicated means it's easier to understand by other people. Also by limiting the line width makes it possible to have several files open side-by-side, and works well when using code review tools that present the two versions in adjacent columns.</div></div><div><div>Line 34 - Issue code: E501</div><div>Line is longer than 79 characters.</div><div>You should rewrite your long line of code by breaking it down across multiple lines.</div><div>By making sure your lines of code are not too complicated means it's easier to understand by other people. Also by limiting the line width makes it possible to have several files open side-by-side, and works well when using code review tools that present the two versions in adjacent columns.</div></div><div><div>Line 38 - Issue code: E302</div><div>Two blank lines are expected before and after each function or class.</div></div></div></div>			

Your code

```
245     # User input handling
246     box = ttk.Entry(root)
247     box.place(relx=0.45, rely=0.3, relwidth=0.1)
248
249     submit = ttk.Button(root, text="Submit Name",
250                          command=lambda: check_name())
251     submit.place(relx=0.45, rely=0.5, relwidth=0.1)
252
253     clear_div()
254     gather_data(source_file)
255     current_question: int = 0
256     root.state("zoomed")
257     end = ttk.Button(root, text="Quit", command=leave)
258     end.place(relx=0.95, rely=0.95)
259     getusername()
260     root.mainloop()
261
262
263 if __name__ == "__main__":
264     main()
265
```

[Load example](#)[Restart](#)

No style issues found!

[Copy text version to clipboard](#)

Privacy notice: Your code is anonymously stored on our website for analysis and then instantly deleted. The count of style issues triggered by your code are stored, but the code itself is not permanently stored.

Main python file (...v9.py tested)

Your code

```
113
114     label = tk.Label(
115         main, text="What is the name of the dif-
116     label.pack()
117     entry = tk.Entry(main)
118     entry.pack()
119     submit = tk.Button(main, text="Submit", com
120     submit.pack()
121
122     def start():
123         clear()
124         yesno("Do you want to add a difficulty? ", c
125
126     start()
127     popup.mainloop()
128
129
130 # If ran as a standalone package.
131 if __name__ == "__main__":
132     create_file()
133
```

[Load example](#)[Restart](#)

Privacy notice: Your code is anonymously stored on our website for analysis and then instantly deleted. The count of style issues triggered by your code are stored, but the code itself is not permanently stored.

2 style issues found

Click a style issue to see where it occurs in your code.

Line 30 - Issue code: N806

Variables in functions should be lowercase.

Edit the variable in your function to be lowercase.

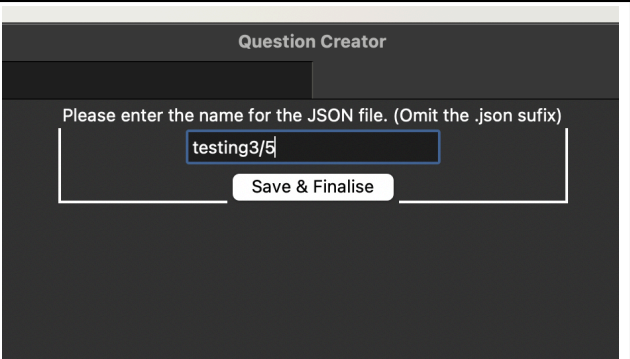
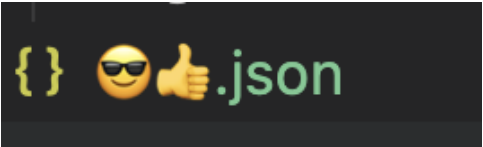
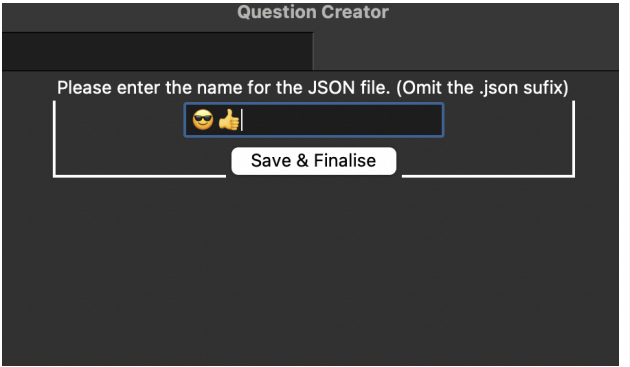
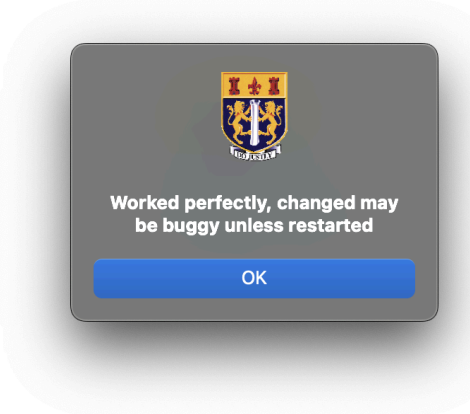
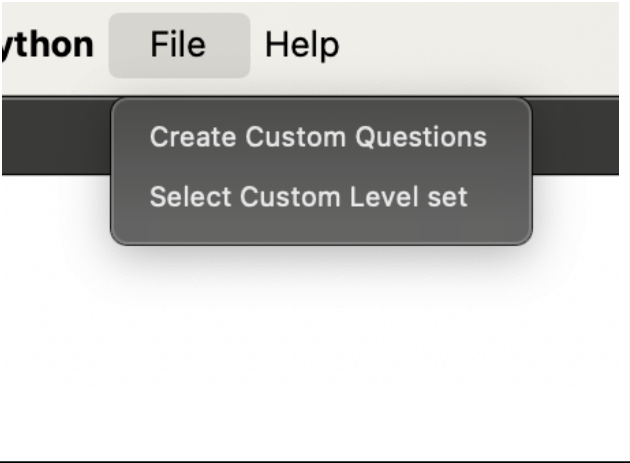
Line 30 - Issue code: N806

Variables in functions should be lowercase.

Edit the variable in your function to be lowercase.

[Copy text version to clipboard](#)

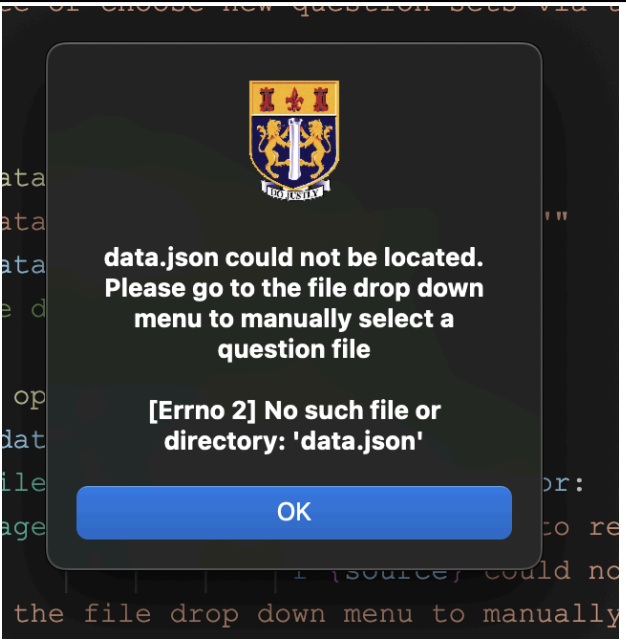

json_maker.py (both issues on line 30 are constants. They are inside a function due to the nature of the file.)

Comprehensive	filename	testing3/5	<p>I have todays dated (3/5) and wanted to save this as a file. The program has no feedback and just places an error to the console.</p> <p>Added an errorbox that shows up when any disk write errors show up</p>	 <p>Test failed: File did not save because an incorrect input, needs to clarify that symbols will not work e.g. “\ / ,” will not work</p>
Comprehensive	filename	😎👍	<p>It was a cool question file so I tried to name it as such, worked on macOS, I didnt expect this to work but it does on windows as well upon further research</p> 	
Comprehensive	source_file	😎👍.json	 <p>Worked fine, even with quirky names.</p>	

Comprehensive	q, a (Question and Answer for custom questions) json_maker_ux	*from year_9_questions.json	Should present all questions as written	<div>Question: List The Second Lowest Factor Of 8, Answer: 2 Question: What Is The Highest Common Factor Of 6 And 8?, Answer: 2 Question: What Is The Highest Common Factor Of 12 And 20?, Answer: 4 Question: What Is The 4Th Multiple Of 3, Answer: 12 Question: How Many Even Prime Numbers Are There?, Answer: 1</div> <p>Every word begins with a capital, due to a .tittle() method, removed and fixed.</p>
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	q, a	empty ("")	Should tell the user that it needs content	<div><div>What is the name of the difficulty to add?</div><div></div><div>Submit</div><div>Quit with...</div></div> <p>Nada!</p> <pre>diff = entry.get().title() if diff.strip() == "": return None</pre> <div><div>The difficulty cannot be null!</div><div>OK</div></div>
Comprehensive	source (testing in case local file cannot be found. This will not happen under normal circumstances)	Ideally should show an error saying file not found	Removed file from dir, wouldn't run. Added robustness, the user has to select questions from the dropdown menu now.	<pre>FileNotFoundError: [Errno 2] No such file or directory: 'data.json'</pre> <p>Program could not run due to incorrect file structure. Make sure the default data.json is in the same directory as the quiz! [Errno 2] No such file or directory: 'data.json'</p>

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			V10 now has a visual pop-up for the user.	
Comprehensive	current_theme	Button Clicked	Should change theme	 Works

Learner’s Statement of Authenticity

This assessment has been done entirely by me.

Signed Logan Simonsen

Date 4/5/24