

Replace this statement with your name

13CSI_Assessment Testing

AS3.7_(91906)v1 - 6 Credits

Use complex programming techniques to develop a computer program

Testing table

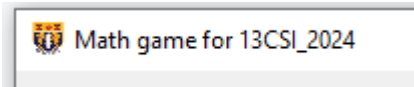
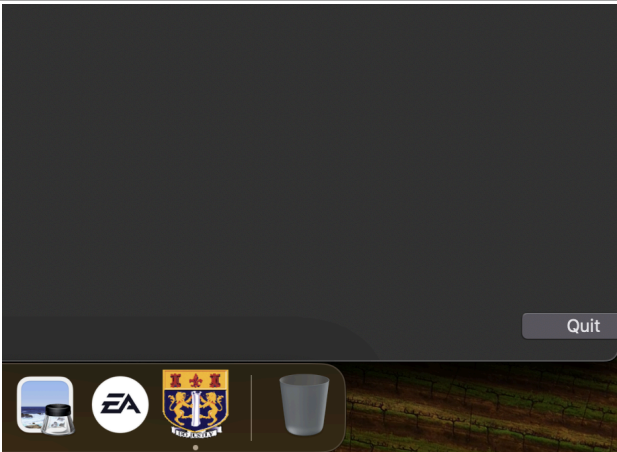
Minimal tests 4 expected for Achieved

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

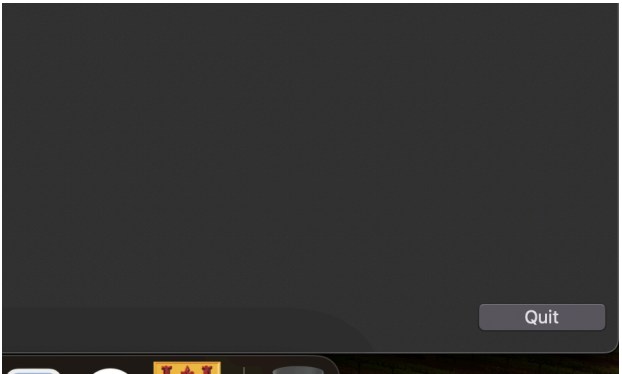
Plus 6 Comprehensive including a minimum of 4 Invalid (Error Catching) and 3 other Tests could be more Boundary or Expected Tests for Excellence

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 window on click, need iteration</p>

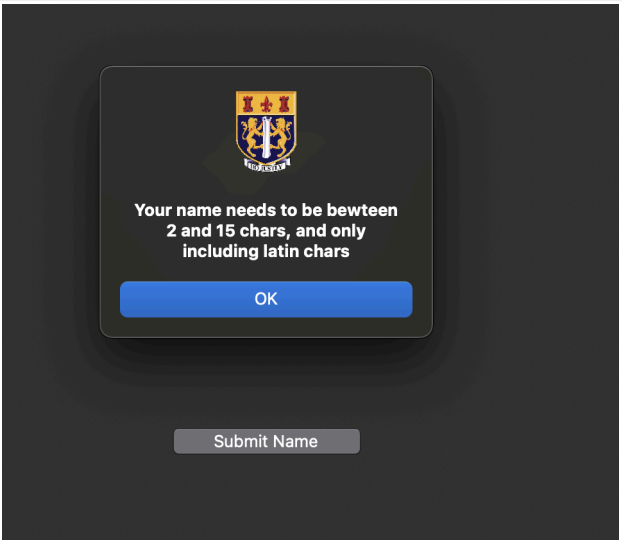
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				<div></div> <div>Better. Could use overall theming.</div>
Expected	username	Logan	Should proceed with the game after a button press	<div><div>Welcome to Logan's Math game!</div><div>Please enter your name</div><div><div>Logan</div><div></div></div>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

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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></div><div>Submit Answer</div></div>
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Boundary	username	LS (two chars)	Allows, it is between 2 - 15 char and alpha chars	<div><p>Didn't work; Fixed promptly</p><pre>value = box.get().strip().title().replace("-", "") if value.isalpha() and 2 <= len(value) <= 15: username = value</pre></div>
Boundary	Welcome text	Visual Inspection	Should be centered horizontally	<div><p>Welcome to Logan's Math game!</p><p>Please enter your name</p><div></div></div>

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				<div><p>Welcome to Logan's Quiz!</p><p>Please enter your name</p><input type="text"/><p>Submit Name</p></div> <p>Mathematically centred. Done using <code>relx=0.45 + relwidth=0.1</code>. Pythonic error in tkinter.</p>
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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>

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				<div><div>Math game for 13CSI_2024</div><div><div>Easy</div><div>Medium</div><div>Hard</div><div>Impossible</div></div></div> <div>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.</div> <div>REVERTED CHANGE: The math used in rel* doesn't work on a second run-through due to unavoidable automatic caching</div>
	answer	undefined (all lower case)	should be fine	<div><div>Unlucky! You got it wrong</div><div>Next?</div></div> <div>Failed, undefined != Undefined</div>

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				<div>Math game for 13CSI_2024</div> <div>Good Job! You got it right!</div> <div>Next?</div>
PEP8 Evidence	<div>Fixed.</div> <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”			

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PEP8 - Before

Your code

```
212     label.place(relx=0.45, rely=0.25, relwidth=0.1)
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
```

Load example

Restart

Privacy notice: Your code is anonymously stored on our website for analysis and

24 style issues found

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

Line 33 - Issue code: E501

Line is longer than 79 characters.

You should rewrite your long line of code by breaking it down across multiple lines.

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.

Line 34 - Issue code: E501

Line is longer than 79 characters.

You should rewrite your long line of code by breaking it down across multiple lines.

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.

Line 38 - Issue code: E302

Two blank lines are expected before and after each function or class.

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PEP8 - After

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

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.

No style issues found!

Copy text version to clipboard

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

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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

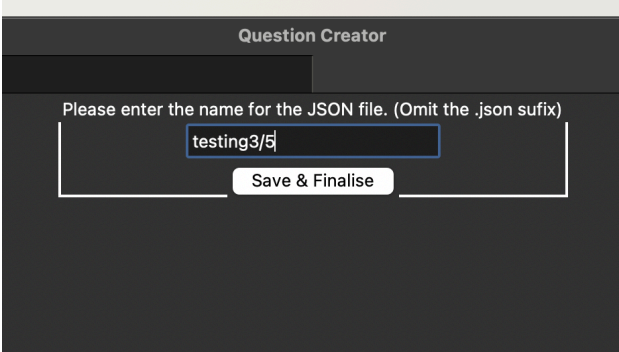
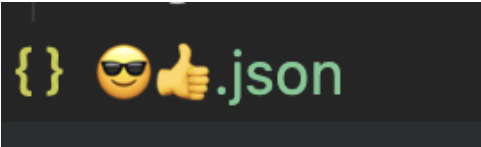
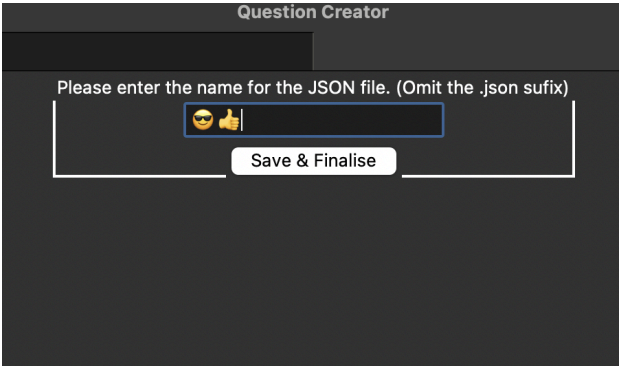
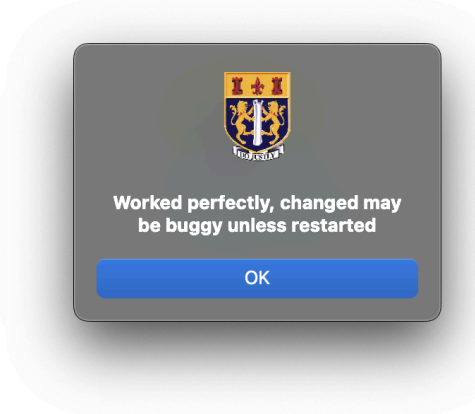
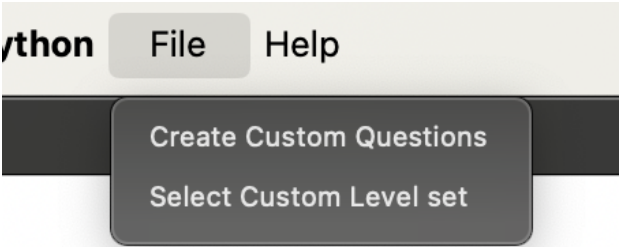
Variables in functions should be lowercase.

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.)

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Comprehensive	filename	testing3/5	<p>I have today's date (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>Left as is due to OS discrepancy</p> <pre>return self.func(*args) File "Users/loganmonson/Documents/code/3-7_maths_quiz/json_maker.py", line 63, in final with open(f"entry.get()}.json", FileNotFoundError: [Errno 2] No such file or directory: 'testing3/5.json'</pre>	 <p>Test failed: File did not save because of 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 didn't 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>	

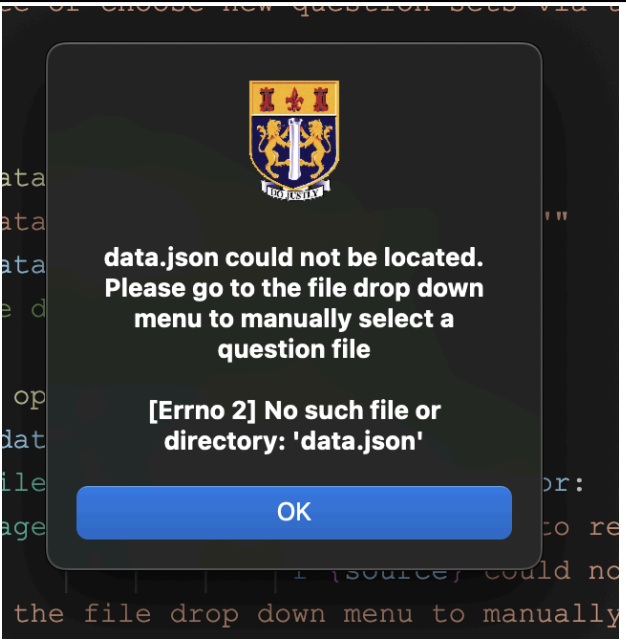

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Comprehensive	q, a (Question and Answer for custom questions) json_maker_ux	*from year_9_questions.json	Should present all questions as written	<div>Question: List The Second Lowest Factor Of 8, Answer: 2 Question: What Is The Highest Common Factor 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