Sprint Tracking

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| **Name:** | **The almighty quiz** | | |
| **Sprint Number** | **Start Date** | **End Date** | **Work hard rating** |
| 8 | 29/05 | 02/06 | ☆☆☆☆☆  (out of 5 stars) |

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| **KANBAN board at the start of the sprint** |
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| **Screenshot of the program at the start of the sprint** |
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| **Sprint Reflection and summary** |
| Result summary is fully functional. Fixed bugs.  Documented and refactored my code a little.  Started creating the real questions. |

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| **Major Changes and Achievements Described** |
| As noted in the last sprint, I was having bugs with the checkboxes in the result summary, where the checkboxes could be ticked/unticked and weren’t showing up as ticked correctly. The correct/incorrect colours were also wrong. I was able to fix the tick bugs by creating a new class for the summary checkboxes to store the IntVar variables in. I’m assuming that for some reason all of the checkboxes were somehow using the same IntVar. The colour bug was caused by the fact that I was not saving the correct answers for the question properly, rather just the answers that the user got correct. But now both those bugs are fixed and it works perfectly.    The result summary has had so many bugs during this sprint, but it’s been great to have been able to fix all of them. It taught me how Python local variables worked as well, which is always nice. |

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| **Brief Description of your testing** |
| I made my testing process a lot more time consuming last sprint by adding those confirmation message boxes for when the user tries to close a window. I may have to add a keybind to close all windows instantly to make testing much faster. |

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| **Link to testing results/tables** |
| The checkboxes are now working as I intended for them to work. However, in this screenshot the question count, that’s present when playing the quiz, does not appear in the summary results.  I had a bug where no matter what summary entry I went into, it would always use the latest save in the directory. This was because Python local variables work a lot differently to every other programming language I’ve used in the past. My solution was to use a new class for the summary scroller window.    I added a view summary button at the end of the quiz but forgot to set its visibility to false.    This error comes up when I try using the result summary more than once. For some reason an entry isn’t getting destroyed:  After lots of testing, I determined that I had already technically been destroying the answer objects, but not in the way I thought. I forgot I was destroying and creating a new window each time the user opens the summary, which means it was trying to delete objects that were already destroyed with the previous window.    This is what happened when I pressed enter on the main window while in the summary screen. I forgot to check for that. |

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| **KANBAN board at the end of the sprint** |
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| **Screenshot of the program at the end of the sprint** |
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| **Notes for next time, future improvements** |
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