**Quiz with files**

# Programming Challenges: Evidence

Link to Systems Methodology – As the program has been implemented/built, these tasks would (probably) come under the maintenance stage of the development life cycle

1. **Code Readability** – use appropriate naming of variables, procedures, functions and other objects. Comments are used throughout to describe the purpose of every process in the program and the main variables

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1. **Improve Validation** – amend the program so that an appropriate error message is displayed if the question file is not found (does not exist) when the user attempts to take the quiz [Perfective Maintenance]

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1. **Improve Quiz Feedback** – amend the program so the user is also shown the percentage of question that they have answered correctly. [Perfective Maintenance]

E.g. There were 10 questions

You correctly answered 5

You percentage of correct answers is 50%

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1. **Improve Answer Input** – amend the program so that answers to questions are not case sensitive. Functions .ToUpper() or .ToLower could be used to achieve this [Corrective/Perfective Maintenance]

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1. **New Feature** – amend the program so the user is able to use a different file location [Adaptive Maintenance]

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1. **New Feature** – amend the program so that a topic is given to each question when new questions are entered. [Adaptive Maintenance]

E.g. This could be stored like this: [Question],[Answer],[Topic]



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| Program code |
| Entering new questions |
| Text File evidence |

1. **New Feature** – Different Quiz Options: [Adaptive Maintenance]
   1. When a user chooses to take a quiz, they should be shown a list of topics and asked to choose one
   2. The user should then be asked questions for that topic only

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