

SAMPLE ASSIGNMENT #3: FRENCH REVISION

Mr Parker teaches GCSE French and is concerned that his Year 10 students are not practising their ability to spell the key vocabulary for their exam and need more practice.

He would like a system that will display the English version of the common vocabulary words on screen; students must then type in the correct French version of the word.

When a student has completed 10 questions the system must keep a record of their results. If a student has successfully answered a question at their first attempt, this question is not shown in the second attempt. Questions which have been incorrectly answered must always appear as part of the next set of questions.



Mr Parker has asked you to design the system, which must be able to do the following:

- Ask for student name and candidate number
- Check the candidate number entered is in the range 0001 to 9999
- Display a set of 10 English vocabulary words and check that the student has correctly spelled the French equivalent
- Display a message giving the score out of 10
- Words which the student has answered correctly on the previous attempt must not be included in the current set of words
- Store the results of each student attempt in an external file
- Display the number of correct answers at the end of each attempt
- Display the average score each time the student has completed two previous revision attempts

In the final solution, you should demonstrate the use of:

- Data validation
- File input to use the **French_English** data file supplied
- Structured code
- Error handling routines

Source files are provided for this exercise; download them from <http://zzed.uk/10583-PA3>