**Basic summary of the process for the creation of complex quizzes**

Quizzes in Moodle can be imported/exported via xml code, very similarly to websites.

Instead writing an xml code for each question, we generate a Matlab code that will write 100s xml codes of the same shape but with different numbers. A very basic example would be:

1. We want students to do addition of two numbers
2. Matlab generates many questions of type x + y = S where x and y can have any value within a given range (to be specified by the developer) and S is the solution
3. Matlab writes all possibilities of the question x + y in an xml format, indicating the solution S.
4. The xml file containing the 100s questions is imported into the Moodle question bank.
5. Quizzes can be created in Moodle using the questions in the question bank.

Some questions will need images. These are generated in Matlab if they change from example to example, or a static image can be used if modifications are not needed. The images are linked in the xml file and the images uploaded in an online URL.