ISIT307 S3, 2021
Assignment #2
Due: 07:00pm Tuesday 10 August, 2021
Marks: 18 marks (18%)

The purpose of this assignment is to create an interactive website by using web forms, manipulating strings and arrays, and handling user input.

Aims

In this assignment, you will need to develop a dynamic website **"Score It!"** for testing kids knowledge in Mathematics and English Literature. The website will offer to the users to answer questions and score points. At the beginning of a test, the user should insert the name and choose: "Mathematics" or "Literature". The user is starting with overall 0 points. One test can include multiple attempts from the same or different section.

After the user finishes the attempt, the result with the number of correct and incorrect questions, gathered points from the current attempt ([number of correct questions]*5 – [number of incorrect questions]*3), as well as his/her overall points in the test (from all attempts) should be displayed. The user should be offered to attempt a new set of questions from the same or another section or to "Exit".

When the "Exit" option is chosen, the user's name and overall points in the test, should be displayed. Option to start a new test (with entering the name) should be given as well.

The questions for the "Mathematics" section, should include simple operation (addition, subtraction, multiplication, or division) of two numbers. The user should enter the correct number to answer the question. The questions for the "Literature" section, should be simple short answer questions (What is the name of the book, main character, author…), so the user can enter the correct text (phrase) to answer the question. For every section should be at least 10 questions of which 4, by random choice, should be displayed to the user in every attempt.

The user can navigate thru sections/attempts and have unlimited attempts in the same test.

Requirements
1. Design Requirements
The website should have interfaces for:
- Entering the name and menu with offered sections;
- Attempt with 4 questions;
- Displaying the result from the attempt and overall test points;
- Displaying the user's name and overall test score points when the user has finished the test (for the "Exit" option).

2. Functionalities

- The user should be able to insert the name (at the beginning of the test);
- The user should be able to choose different sections (at the beginning and after every attempt);
- The user can have unlimited attempts in one test and can see the result of the current attempt and his/her overall test points after every attempt;
- The user should have an option to "Exit" and restart the test from the beginning.

3. Other Expectations

- The website should have good interfaces and navigation thru the given options.

Submission

1. Prepare a report that has: header

    My name:
    My student number:
    My email address:
    Assignment number:

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    any requirements, remarks or readme, and a detail user guide/manual for your web site. The report should also include the list of web site's files and brief description for each file.
2. Submit a ZIP file containing all assignment files and your report (in .pdf) over Moodle submission link. Named the zip file as A1-TxYY-ID1,ID2(Name1,Name2) where "x" is the tutorial group and YY is your team number.
3. You are not required to submit a hardcopy of the report, nor copy out all the source code. Make sure you have included all the information needed, so your solution can be run in a browser.
4. The students should present their solutions to the tutor during the next lab session – **Presentation & quiz: 11/08/2021**.

NOTES:

1. Submit your assignment before the due date. Penalties apply to all late work, except if student academic consideration has been granted. Late submissions will attract a penalty of 25% of the assessment mark. This amount is per day including weekends. Work more than 4 days late will be awarded a mark of zero.
2. Submission via email is not acceptable.
3. Assignments without reports will not be marked.

4. Not being able to answer to tutor's questions (regarding the website) or not being able to change your program/code, based on the tutor's requests may result in the deduction of marks for the assignment.
5. Enquiries about the marks can only be made within a maximum of 1 week after the assignment results are published.
6. By submitting this assignment, you declare that this assignment is **Your own work and you did not collaborate with or copy from others**.

Assessment Criteria		**Total Marks**	**Given Marks**
1.	Structure/Documentation	2	
2.	Interface	4	
3.	Functionality	6	
4.	Presentation and answers to tutor's questions	3	
5.	Moodle Quiz 1 (individual)	3	
		Total	