

Summer Task – Computer Science

Write a program in a high-level programming language (python, JavaScript etc) which completes task 1,2 and 3. Please annotate your code. **Please ensure that the work you produce is your own work.**

Email your completed programs to: a.fitzpatrick@hautlieu.sch.je

A teacher needs a program to record marks for a class of 6 students who have sat three computer science tests.

Write a program for the teacher.

- Your program must include appropriate prompts for the entry of data.
- Error messages and other output need to be set out clearly and understandably.
- All variables, constants and other identifiers must have meaningful names.

TASK 1 – Create a data structure (1D Arrays, 2D Arrays etc) to store the following:

- Student names
- Student marks for Test 1, Test 2 and Test 3
 - Test 1 is out of 20 marks
 - Test 2 is out of 25 marks
 - Test 3 is out of 35 marks

TASK 2 – Allow marks new marks to be entered for all six students

TASK 3 – Calculate

- Calculate the total score for each student and store in the array.
- Calculate the average total score for the whole class.
- Select the student with the highest total score and output their name and total score
- Calculate the average percentage for each test and output which test had the highest percentage

Any of the calculations above should be calculated and displayed based upon a user's request.