

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.