Summer task
Computer Science
Year 12 into Year 13

Task 1 ~ Coursework

1. Complete the following and add them to the design part of the coursework document
   Using the hierarchical diagram showing the top down approach to the project design, complete for at least 2 algorithms:
   a. Flow chart
   b. Pseudocode
   c. Trace table using data chosen to test any validation
   d. Data dictionary for any variables, constants and data structures used e.g.:

Type of data structure	Name	Format	Example	Validation
Variable	Username	String	Computing4fun	Length check
Dictionary	Passwords	String	{“Computing4fun”:”springwood1”}	Existence check

   You can either have 1 data dictionary for the project or individual ones for the algorithms

2. For the development part of the project:
   a. Code the above algorithm using screen shots to show testing using the data in the above trace table.
   b. Screen shot any errors in the code and show how this was corrected and retested.
   c. Research 2 features that would enable stakeholders to use your final product such as:
      i. Colour blindness
      ii. Readability
      iii. Language

   For each show evidence of research and explain how you will adapt your project to enable people suffering to be able to access it.

Task 2 ~ Designing web pages using HTML and CSS

Design a simple webpage for the Computer Science Department to promote KS3 (Year 7 – 9) coding club. You are free to introduce any relevant information to entice students to take part.

Requirement for the website:

- Appropriate heading
- Appropriate title
- A marquee
- Appropriate images
- Appropriate layout using CSS
- Ordered and Unordered lists of information
- Appropriate information