

Software Design Project

S2 AS/A Level Computer Science Assessment 7

Due 12/19

45 Marks

The **Design Project** is to produce a design for a fully-functional python program. The student should have already chosen a program they wish to make in Assessment 6, and now we will design it! The student need **not** write the actual python code until next semester. This semester we are making the specification and design documentation only.

Software Design Document (40 marks)

This document is written by developers for developers. It is intended to come to agreement by all developers on how a particular product is to be built. By thinking of the design and agreeing on the design ahead of time, a lot of time and effort can be saved overall.

In our class, the simplified version of this document will include:

- An **introduction/overview** of the design, including the development approach. (2 marks)
- A **Structure Chart** to explain the modules and their interfaces (10 marks)
- **Flowchart** to explain your logic in more details (5 marks)
- An **Identifier tables** to understand the global variables, and the local variables for the important modules (5 marks)
- **Pseudocode** for the preparation of real software to be made. (18 marks)

Handing in (5 marks)

Due date for this assignment is Monday, Dec 19th in class. Submitted documents include:

- Printed version of the **Software Design Document**
- Digital (PDF) version of the **Software Design**, named "design.pdf"

Some marks will be allotted to the general quality of your submission (5 marks)