Development Log

19th Oct 2019 – Started work on a library program. The program consists of a 2D array with the name of the book and whether it is available to lend inside of each individual array. Functions written so far allow for one to take out and return a book to the library, changing a boolean inside of the array. I plan to add a function to add a new book to the library.

21st Oct 2019 – New function added which allows one to add a new book to the library. This is accomplished by appending a newly created array in to the 2D array. My next plan is to add date/time validation to the program, changing each array to have a “next in by” date, i.e. the date at which the book will be returned. This date is compared to the current date to see whether the book is available, and will ask how long the user needs it for and therefore when the book will be expected to be back in the library.

4th November 2019 – I have managed to retrieve the current date/time from python and been able to compare it to another using the substring function to compare dates. Next, I plan to alter the 2D array to accommodate dates instead of bools.

17th November – The 2D array now accommodates dates instead of booleans. My next plan is to use an SQL flat file database instead of a 2D array. To do this I will use SQLite and directly transfer my layout for a 2D array on to the flat file. In order to adapt my program, I will need to write functions that can read and write from an SQL database which will likely take much longer to do than previous iterations of the program.