**Challenge 5 Basic Design:**

The program is structured in 5 modules:

|  |  |
| --- | --- |
| **Clock Operation Module** | handles normal operation of clock mode |
| **Calendar Operation Module** | handles normal operation of calendar mode |
| **Clock Setting Module** | handles operation of setting random values for each items in the clock mode(hour, minute, second |
| **Calendar Setting Module** | handles operation of setting random values for each items in the calendar mode(year, month, day) |
| **Display Module** | displaying the output to LCD on H8 board, this module is used in all 4 above modules |

* **Basic design flow chart:**

Please refer the file <課題5＿基本フローチャート.png>

This flow chart demonstrate the overall sequence of operation of the program.

* **Basic design state diagram:**

Please refer the file<課題5＿基本ステートマシン図.jpg>

This diagram demonstrate how the states of the program change under possible users’ interaction using buttons on H8 board.