Project #3

Using the ARMSim + Embest plugin produce a program that behaves in the following manner:

The Keypad is assumed to be numbered like so:

7	8	9	N/A
4	5	6	N/A
1	2	3	N/A
N/A	0	N/A	N/A

1. The 8 segment display should:
    1. be blank on startup or when the system is reset
    2. display the value of the last blue key pressed
    3. display "E" if one of the unassigned buttons is pressed
2. The LCD should:
    1. display 0 on startup or when the system is reset
    2. show the current decimal value based on the specified behavior
3. Pressing any blue key with an assigned value should:
    1. add that value to the current integer displayed
    2. update the value on the LCD appropriately
4. Pressing either of the black buttons at any time should reset the system.
5. You can assume that the user will never press more than one key or button at a time.

Meeting the above requirements is a bare minimum for the assignment. In order to get full credit, your program should:

1. have appropriate comments
2. check for errors
3. have a readable output

Please submit a single file called "project3.s" to the assignment.