Lab 5 Mini

In this lab we will attempt to write a program from scratch using the previous labs and notes as a guide.

Program description:

Using the .word directive, pre load 5 numbers into memory, then with each push and release of only button 2 (key1) display the contents of each memory location on the red leds. On the 6th push and release of button 2 clear the red leds and repeat the process.

Pseudo code

1. Load 5 numbers using the .word directive
2. Initialize counter
3. Bitmask button 2(KEY1)
4. Test for button push and release
5. Test for 6th condition if equal then (10)
6. Load number
7. Store to red leds
8. Increment counter
9. Jump to 3
10. Clear red leds
11. Jump to 2