Practical 1

Your pracs will be marked by an automated system. The system requires some knowledge of your code structure to carry out its tests.
Hence, a template is provided. Your code should fit into this template. It's critical that the label names are not modified (if you don't implement the bonus, leave the label as it is). Submissions are strictly not accepted after the due date

Part 1:
In the initialisations block (after the **_start:** label), the LEDs should be setup as outputs. At the label **all_off** the LEDs should be all off

Part 2:
After the **display_AA** label, the pattern 0xAA should display on the LEDs

Part 3:
After the **all_on** label, the LEDs should all be on

Part4:
After the **display_55** label, the pattern 0x55 should display on the LEDs

Bonus:
If push button 1 is held down, the LEDs should display and hold the value 0x0A. Else nothing should happen

Part5:
Infinite branch back to label **all_off**

Marked out of: 8
Available marks: 9