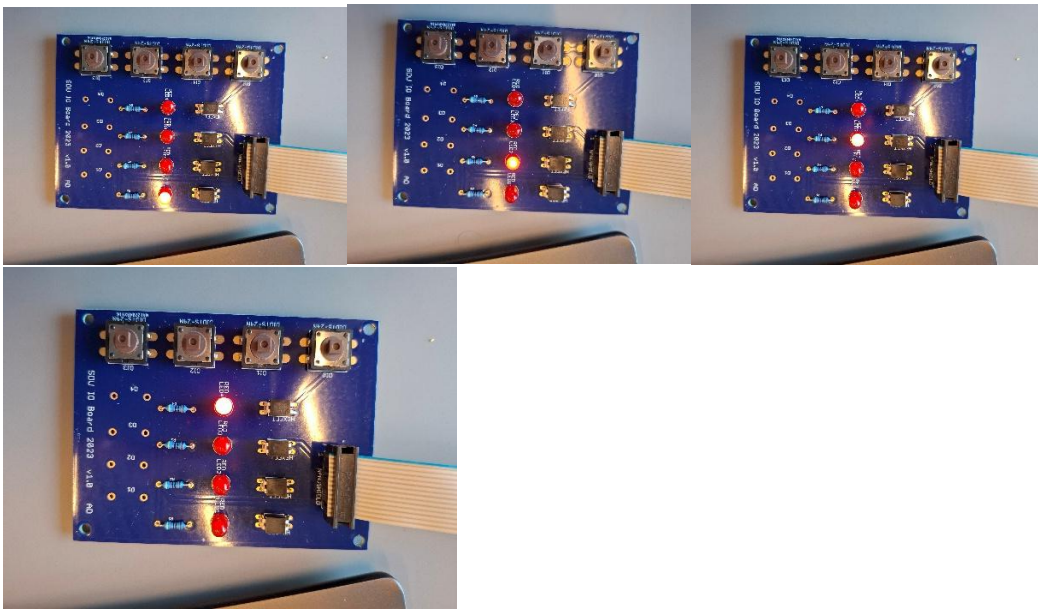
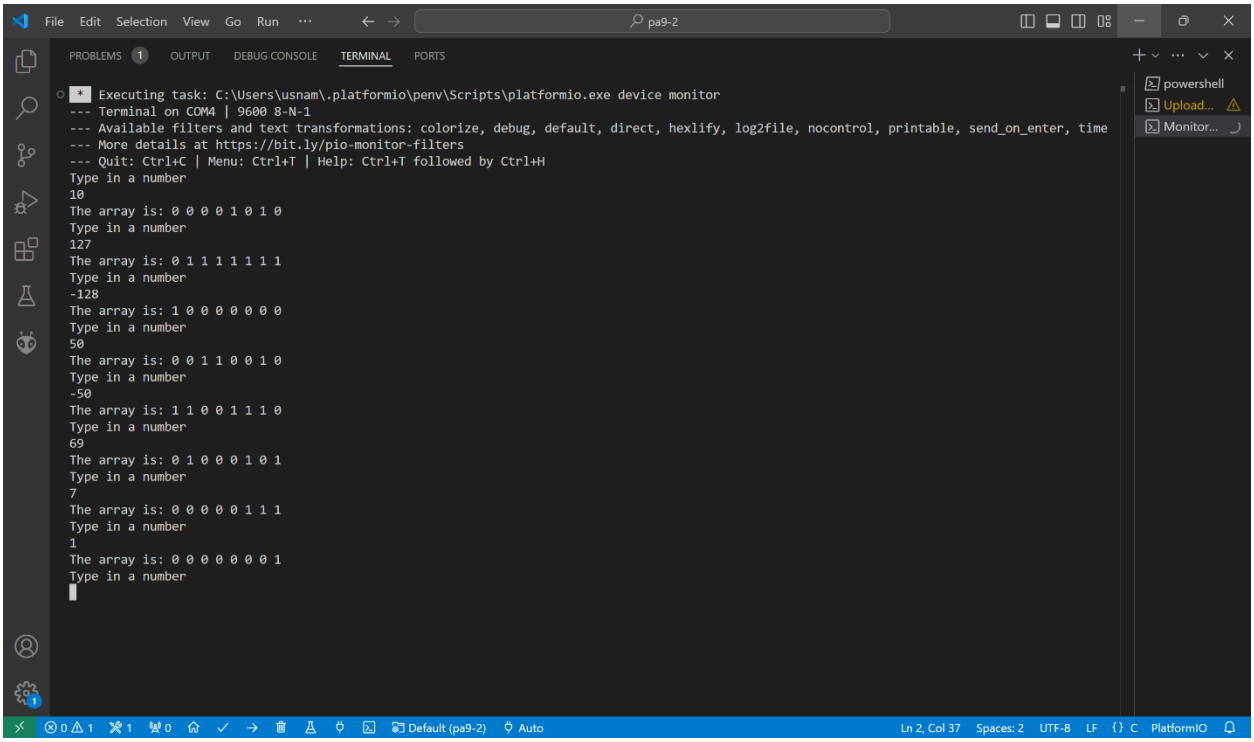
1.



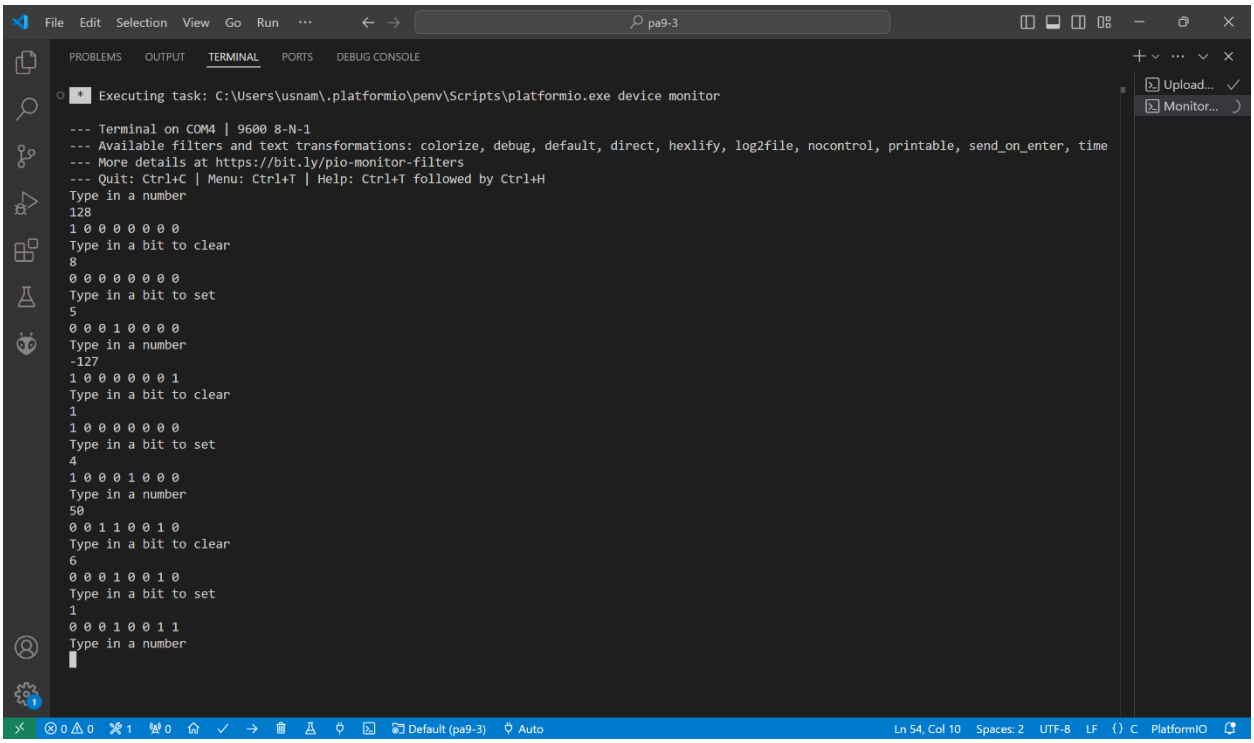
The four states of the LED, without any buttons pressed. Pics are at 0.5s, 1s, 1.5s and 2s respectively. Holding a button between the cycle of pulses make it switch intervals (250ms, 500ms, 1000ms and 1500ms, respectively) for the duration of the next cycle.

2.



Test results for exercise 2. Displays the bits of any number between -127 and 128, from most significant bit to least.

3.



Test results for 3. Program reads a number, displays its bits, clears a bit, displays that, then sets it, and displays that too.