

Init:

- RGB Status LED
- * P1.1-P1.3 as outputs
- * Timer Interrupt B0 (for RGB_ISR)
- * int pwms, red_counter, green_counter, blue_counter
- * vartype system_states
- * system_states State
- LCD Display
- * P5.3-P5.0, P6.3-6.0 as outputs
- * Timer Interrupt B2 (for LCD_ISR default state: disabled)
- * int phase
- * int update_phase
- Keypad
- * P3.7-P3.4 (rows) as inputs (pull down resistors on all of port 3)
- * P3.3-3.0 (columns) as outputs (high)
- Heartbeat
- * P1.0 as output
- * Timer Interrupt B0 (for Heartbeat_ISR)
- Main
- * int unlock = 0;
- * char lastInput = '0'
- * char chosenPattern
- * int rows

