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/*Proj_1B1_LED_display
*****

As Proj_1B: But uses project subroutine "waitforkeypress();" to increment the display.*/

#include "Proj_1B1_header_file.h"

int main (void){

    unsigned int PORT_1=1;
    char m=1;
    char overflow=0;

    setup_HW;
    while(1){

        I2C_Tx_2_integers(PORT_1, ~PORT_1);
        waitforkeypress();
        if (m<=5){PORT_1 |= (PORT_1 << 1);m += 1;}
        else PORT_1 = PORT_1 << 1;
        if(overflow)PORT_1 |= 1;
        if (PORT_1 & 0x8000) overflow=1;
        else overflow = 0;
    }}

```