```
=/*Proj_1B and Proj_1B1_LED_display
  #include "Proj_1B_header_file.h"
pint main (void){
                                                                                                                                                    //PORT_1 defines the display and initialises it //m is only active for the first 5 cycles of the "while-loop" //overflow is set to 1 when the most left hand leds are illuminated
  unsigned int PORT_1=1;
  char m=1;
char overflow=0;
   setup_HW;
 while(1){
           I2C_Tx_2_integers(PORT_1, ~PORT_1);
Timer_T0_10mS_delay_x_m(6);
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;</pre>
                                                                                                                                                    //the ~ symbol inverts the ones and zeros
//Can be replaced with waitforkeypress();
//m += 1; is shorthand for m = m+1;
//once "m" is 6 simply shift the display left
//if overflow is 1 execute "PORT_1 |= 1;".
//0x8000 = binary 100000000000000
                                                                                                                                                    //if PORT_1 is greater than or equal to 0x8000 //place 1 in its least significant bit //this effectively cycles the display round and round
```