```
**************************
/*SNOW STORM DISPLAY VERSION 2
In this version the random number generator is always reset to OxFFFF
(1111 1111 1111 1111) and the EEPROM is not used.
When the WDT times out the display continues after a short pause but
always restarts from the same state (i.e. all ones).
Press sw_3 to operate the WDT.*/
#include "Proj_2B1_header_file.h"
unsigned int PRN;
                                                          //Global memory location used to store "pseudo random numbers"
int main (void){
setup_HW;
wdt_enable(WDTO_250MS);
                                                          //Following a WD reset the PRN is re-initialised to OxFFFF
config_sw1_and_sw2_for_PCI;
sei();
                                                          //SW1 is not used
                                                          //Program supplied initial value fror PRN
PRN = 0xFFFF;
                                                          //Infinite while loop
while(1){
                                                          //Display two "pseudo random numbers"
//Generate a new PRN using the previous value as input
I2C_Tx_2_integers(PRN, (PRN<<1));</pre>
PRN = PRN_16bit_GEN (PRN);
                                                          //Pause before repeating
//Reset the watchdog timer which avoids the possibility
//of a reset for another 250ms
Timer_TO_10mS_delay_x_m(10);
wdr();}}
ISR(PCINT2_vect)
                                                         //If switch_3 is pressed put program execution on hold
//The watchdog timer will not be reset and will "time out"
{if (switch_2\_up)return; else while(1);}
```