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Proj_5B_Demo_Clock_B

INTRODUCES

1. Resources subroutine I2C_Tx_8_byte_array() which sends an array of 8 askii characters (0 to 9) to the 8 digit display.

2. A basic clock mechanism

The timer T0 generates a one second tick that is used to increment the variable sec_counter and also call the subroutine Display_time().

Subroutine Display_time()

Resets the sec_counter after 12 hours (43200 seconds).
Converts the number of seconds to hours, minutes and seconds
Calls the timer_unsigned to askii subroutine to covert hours, minutes and seconds to three 2 character strings.

Note: #define statements in the clock_stop_watch.h header file, map the labels HoursH and L, MinsH and L and SecsH and L to digits [2] to [7] so that the clock can be displayed using a I2C_Tx_8_byte_array() subrouutine.