```
int main (void){
char User_response;
char digits[8], start_time[8];
unsigned char input_mode;
char keypress;
setup_HW_Arduino_IO;
                                                                //Set the EEPROM location 2 to its default value
if(switch_3_down){eeprom_write_byte((uint8_t*)(0x02),255);
Serial.write("EEPROM reset\r\n");
while(switch_3_down);SW_reset;}
if (switch_1_up)
                                                               //Press SW2 to omit user prompt
{User prompt A;}
while (switch_1_down);
input_mode = eeprom_read_byte((uint8_t*)0x02);
                                                               //Read mode. Default value is 255
switch (input_mode){
case 255:
                                                                 //If EEPROM contains 255 initiate the clock
Serial.write("\r\nSend time: hours mins secs\
(24Hr clock)");
clear_display;
for (int m = 0; m < 8; m++)
                                                                 //Obtain time from KBD
keypress = waitforkeypress_A();
if((m == 2) | | (m == 5))
{digits[0] = ' '; save_to_eeprom;
shift_display_left; m += 1;}
digits[0] = keypress;
save_to_eeprom;
I2C_Tx_8_byte_array(digits);
if (m < 7){shift_display_left;}}</pre>
                                                               //Update mode and save in EEPROM location 2
eeprom_write_byte((uint8_t*)(0x02),0);
Serial.write("\r\nFollow carefully (POR may be needed)!!\r\nPress SW1 & Power cycle!:\
Can now use 5V USB charger if required.\r\n\
Release SW1 ro restart clock at time entered.\r\n");
                                                               //Exit and send Start clock command
break;
case 0:
                                                               //If EEPROM location 2 contains 0 start clock immediately
                                                               //Restore the EEPROM location 2 to its default value
eeprom_write_byte((uint8_t*)(0x02),255);
default: eeprom_write_byte((uint8_t*)(0x02),255);
                                                              //If EEPROM ever gets corrupted reset it to 255 (0b11111111)
wdt_enable(WDTO_15MS); while(1);break;}
                                                               //Exit and start clock
for (int m = 0; m < 8; m++)
{start_time[m] =
eeprom_read_byte((uint8_t*)(m+3));}
I2C_Tx_OS_timer(AT_clock_mode, start_time);
                                                             //Send Start clock command (AT clock mode is 7)
while(1);}
```