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#include "Local_subroutines.c"
```

```
unsigned int PRN;  
unsigned char PRN_counter;
```

```
int main (void)                                //Example 13  
{int T1_period = 15;  
  char direction;  
  char seg_counter;  
  setup_HW;  
  
  I2C_Tx_any_segment_clear_all();  
  PRN_counter = 0;  
  PRN = PRN_16bit_GEN (0, &PRN_counter);  
  direction=1;  
  while(1){  
    direction ^= 1;  
    seg_counter=0;  
    PRN = update_display  
    (T1_period, direction, seg_counter, PRN);  
    if(switch_1_down);  
    else T1_period = Adjust_T1_period(T1_period);}}
```

```
int main (void)                                //Example 14  
{ unsigned int PRN;  
  unsigned char PRN_counter;  
  
  setup_HW;  
  wdt_enable(WDTO_30MS);  
  PRN_counter = 0;  
  PRN = PRN_16bit_GEN (0, &PRN_counter);  
  while (1)  
  { PRN = PRN_16bit_GEN (PRN, &PRN_counter);  
    I2C_Tx_2_integers(PRN, (PRN << ((PRN % 2) + 1)));  
    Timer_T0_10mS_delay_x_m(10);  
  }}
```