```
#include "Local_subroutines.c"
int main (void)
                          //Example 4
  { unsigned int PORT 1;
    int T1_period = 15;
  setup_HW;
 while(1){
 PORT_1 = 1;
  for (int m = 0; m <= 15; m++)
  { I2C Tx 2 integers
  (PORT_1 << m, PORT_1 << m);
   Timer_T0_10mS_delay_x_m(T1_period);}
for (int m = 14; m; m--)
{ I2C_Tx_2_integers
(PORT_1 << m, PORT_1 << m);
   Timer_T0_10mS_delay_x_m(T1_period); }
   if(switch_1_down)T1_period =
  Adjust_T1_period(T1_period);}}
      int main (void)
                         //Example 5
  { unsigned int PORT_1, PORT_2;
  setup_HW;
 while (1)
  { PORT_1 = 0b000000000000000001;
    PORT 2 = 0b100000000000000000000;
    for (int m = 0; m <= 15; m++)
    { I2C_Tx_2_integers(PORT_1, PORT_2);
      _delay_ms(60);
      PORT 1 = PORT 1 << 1;
      PORT 2 = PORT 2 \gg 1;
    }}return 1; }
    int main (void)
                          //Example 6
  { unsigned long PORT_1, PORT_2;
  setup_HW;
  while (1)
  {PORT_1 = 1;}
    PORT_2 = 0 \times 800000000;
    for (int m = 0; m <= 31; m++)
    { I2C_Tx_2_integers(PORT_1, PORT_2);
      _delay_ms(60);
      PORT_1 = PORT_1 << 1;
      PORT 2 = PORT 2 >> 1;
    }}return 1;}
```