```c
#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 = 0b0000000000000001;
    PORT_2 = 0b1000000000000000;
    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 >> 1;
    }}return 1;  }


    int main (void)        //Example 6
  { unsigned long PORT_1, PORT_2;

  setup_HW;
  while (1)
  { PORT_1 = 1;
    PORT_2 = 0x80000000;
    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;}
```