```
int main (void)     //Example 1  Red LED flashes
{  setup_HW_Basic;
  LED_1_on;
  SW_reset;}


int main (void)    //Example 2  Red LED flashes
{  setup_HW_Basic;
if(switch_3_down){wdt_enable(WDTO_120MS); _delay_ms(60);}
else wdt_enable(WDTO_30MS);
 LED_1_on;
 while(1);}


int main (void)     //Example 3  Red LED flashes
{ setup_HW_Basic;
  while(1){
  switch_LED_1;
  _delay_ms(50);}}


int main (void)     //Example 4  Red LED flashes
{  setup_HW_Basic;  //when switch_1 is pressed
  while (1) {
    while (switch_1_up);
    {switch_LED_1; }
    Timer_T0_10mS_delay_x_m(20);  }}


int main (void)     //Example 5
{setup_HW_Basic;    //Choose colour of static LED

  while (1) {
    while ((switch_1_up) && (switch_2_up));
    if (switch_1_down)
    {switch_LED_1;}
    else
    {switch_LED_2;}
     while (switch_3_up);}}


  int main (void)    //Example 6  Random display
{ unsigned int PRN = 1;
  setup_HW_Basic;
  PRN = (PRN_8bit_GEN() % 50);
  Timer_T0_10mS_delay_x_m(PRN);

if (eeprom_read_byte((uint8_t*)(0x1FA))%2)
{LED_1_on;}
else {LED_2_on;}

eeprom_write_byte((uint8_t*)(0x1FA),
(eeprom_read_byte((uint8_t*)(0x1FA))+1));
SW_reset;}
```