

```
int main (void)    //Example 7
{char next_LED = 0; //Select red/green

setup_HW_Basic;    //combination of flashing leds

while(1){
if(switch_1_down)next_LED = (next_LED+1)%2;
while(switch_1_down);

switch(next_LED){
case 0:switch_LED_1;break;
case 1:switch_LED_2;break;}
_delay_ms(100);}}
```

```
int main (void)    //Example 8    Random display
{ unsigned int PRN = 1;
char timer_on = 50;
setup_HW_Basic;
while(1){
LEDs_off;
PRN = (PRN_8bit_GEN() % 4);
switch (PRN) {
case 0: LED_1_on; break;
case 1: LED_2_on; break;
case 2: LEDs_on; break;
case 4: LEDs_off; break; }
Timer_T0_10mS_delay_x_m(timer_on);
if (switch_1_down)timer_on = timer_on*2/3;
while(switch_1_down);
if(timer_on <= 2)break;}SW_reset;}
```

```
int main (void)    //Example 9
{ setup_HW_Basic;    //Red LED flashes
int on_time = 50;    //with variable speed
do{
if(switch_1_down)on_time = on_time*2/3;
while(switch_1_down);
switch_LED_1;
Timer_T0_10mS_delay_x_m(on_time);}
while(on_time >= 2);
SW_reset;}
```