ES 96 7 30

Sunday, October 22, 2017 1:27 PM

```
#include "mbed.h"
DigitalOut LedPin(PTD2);
int main()
    LedPin = 1;
    while(1) {
        wait(0.5);
        LedPin = 0;
        wait(0.5);
        LedPin = 1;
    }
}
```

KEIL

1- activate clock

2- Define GPIO
define

3- Output

4- output 0, 1

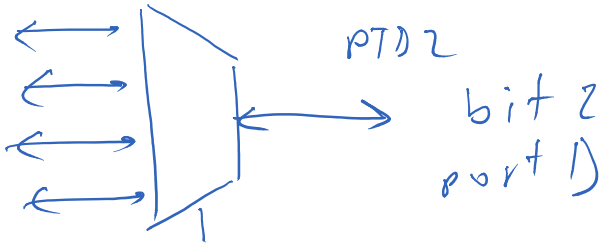
5- wait, delay
program

SCGCR5 bit 12 port D

12th bit

#define SIM_SCGCR5_PORTD_MASK

SIM→ SCGC5 |= SIM_SCGCR5_PORTD_MASK;



Pin Control Register PCR

MUX = 1 GPIO

IRQC no interrupt
interrupt on rising edge
" " falling "
" " level

PCR[32]

32 + (1) + (1) + 1

1 → ISFR
Interrupt Status flag register

PORTD → PCR[LedPin] |= PORT_PCR_MUX(1)

```
#include "MKL25Z4.h"
#define LedPin 2
/* enable clock */
SIM->SCGC5 |= SIM_SCGC5_PORTD_MASK;
/* Select GPIO */
PORTD->PCR[LedPin] |= PORT_PCR_MUX(1);
/* LedPin output */
PTD->PDDR |= MASK(LedPin);
/* Light LED */
PTD->PDOR = MASK(LedPin);
while(1) {
```

```
    delay(cycles);
    PTD->PDOR = ~MASK(ledPin);
    delay(cycles);
    PTD->PDOR = MASK(LedPin);
}

while(cycles--);
```