

Atmel Studio

```
1 #include <meag16.h>
2 #include <delay.h>
3
4 void main(void)
5 {
6     DDRA.0 = 1; // PINA.0 as output
7     DDRB.2 = 0; // PINB.2 as input (Interrupt)
8
9     GICR = 0b00100000; // ENABLE INT2 interrupt
10    #asm("sei"); // Enable interrupt globally
11
12    PORTA.0 = 0; // LED OFF Initially
13 }
14
15 interrupt [EXT_INT2] void interrupt_2(void)
16 {
17     PORTA.0 = 1; // LED ON, when switch is clicked
18 }
```

Listing 1: Embedded C code with Interrupt