
;PB2 reads SW0 and PB3 drives LED0

start:

```
sbi VPORTB_DIR, 3    ;set direction of PB3 as output
sbi VPORTB_OUT, 3    ;set output value to 1
cbi VPORTB_DIR, 2    ;set direction of PB2 to input (default)
ldi r16, 0x08        ;enable internal pull-up resistor at PB2
sts PORTB_PIN2CTRL, r16
```

;Read switch position to control LED

loop:

```
sbis VPORTB_IN, 2    ;skip next instruction if PB2 is 1
sbi VPORTB_OUT, 3    ;set output PB3 to 1, turn LED OFF
sbic VPORTB_IN, 2    ;skip next instruction if PB2 is 0
cbi VPORTB_OUT, 3    ;clear output PB3 to 0, turn LED ON
rjmp loop            ;jump back to loop
```