README.md 10/4/2021

Lab 2: Tomáš Kříčka

My repository

My git - Tomáš Kříčka, 223283

2. Active-low and active-high LEDs

DDRB	Descript	ion		
0	Input pin			
1	Output pin			
PORTB	Description			
0	Output low value			
1	Output high value			
DDRB	PORTB	Direction	Internal pull-up resistor	Description
0	0	input	no	Low-impedance
0	1	input	yes	Pulled down
1	0	output	no	Low output
1	1	output	no	High output

Blinking together

```
while(1)
{
    __delay_ms(BLINK_DELAY);
    PORTB = PORTB | (1<<LED_GREEN);
    PORTC = PORTC | (1<<LED_WHITE);
    __delay_ms(BLINK_DELAY);
    PORTB = PORTB &~ (1<<LED_GREEN);
    PORTC = PORTC &~ (1<<LED_WHITE);
}</pre>
```

4. Push button

README.md 10/4/2021

```
int main(void)
{
    DDRB = DDRB | (1<<LED_GREEN);</pre>
    PORTB = PORTB & ~(1<<LED_GREEN);</pre>
    DDRC = DDRC | (1<<LED_WHITE);</pre>
    PORTC = PORTC & ~(1<<LED_WHITE);</pre>
    DDRD = DDRD &~ (0<<BUTTON);
    PORTD = PORTD | (1<<BUTTON);</pre>
    while(1)
    {
        if (bit_is_clear(PIND ,BUTTON))
             PORTB ^= (1<<LED_GREEN);
             PORTC ^= (1<<LED_WHITE);</pre>
             loop_until_bit_is_clear(PIND, BUTTON);
       }
    return 0;
}
```

Knight rider

README.md 10/4/2021

