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New Text Document (2).txt
// ******************************
 ' Project: Push Button
  'Author: Nilay Khatri
#include <avr/io.h>
#include <avr/interrupt.h>
#include <util/delay.h>
/* Connect LEd tp portb.0. Pushbutton between portb.4 and GND./*
/* Read this first it will help you to program.
Enable pull-off register by setting it to high.
Set the push-button-connected switch as input.
Now in software, check if the logic at the button-
connected switch is low then give, delay of 25ms.
After delay check again the switch pin. If logic level is still at 'O' then button was pressed. toggle
the led.*/
char pin_value;
int main (void)
   DDRB = 0b00000111;
   PORTB = (1 << 0) | (1 << 4);
   for (;;)
        pin_value=(PINB & 0x10); //Checking the PINB register if the button is
pressed
        if(pin_value == 0)
                _delay_ms(25);
                                    //if the button is pressed, wait for the value
to stabilise
                                  //After the delay, checks if the button is
               if(pin_value == 0)
still pressed
                {
                       PORTB\wedge=(1<<0);
                                         //Toggle the LED at the pin
                                         //wait for 250ms before cheking the state
                       _delay_ms(250);
of the button again
        }
   }
}
```