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**Assignment 3**

Use ImageCraft IDE ICCV7, or JumpStart C for Atmel AVR, or Atmel Studio.

Write a code for blinking LED on PB5.

Build the project and find a listing file \*.lst and a HEX file \*hex.

Copy both files into your Lesson 4 subdirectory - we will use the at the next lesson.

As a delay, you can use this function:

void Delay(void) {

unsigned char a, b;  
    for (a = 1; a; a++)

        for (b = 1; b; b++) ;

}

Youtube link: <http://www.youtube.com/watch?v=wI3DLNgbN-k>

Ans:

#include <avr/io.h>

#define BLINK\_DELAY\_MS 1000

void Delay(void) {

volatile unsigned char a, b;

int count =50;

for (int i=0;i<=count;i++)

for (a = 1; a; a++)

for (b = 1; b; b++) ;

}

int main (void)

{

/\* set pin 5 of PORTB for output\*/

DDRB |= \_BV(DDB5);

while(1) {

/\* set pin 5 high to turn led on \*/

PORTB |= \_BV(PORTB5);

Delay();

/\* set pin 5 low to turn led off \*/

PORTB &= ~\_BV(PORTB5);

Delay();

}

}

**Figure:**

