#define F\_CPU 16000000UL

#include<avr/io.h>

#include<inttypes.h>

#include<util/delay.h>

#include<avr/interrupt.h>

#define LED PORTB

char buffer[10];

void USARTinit(uint16\_t ubrr\_value)

{

UBRRL = ubrr\_value;

UBRRH = (ubrr\_value>>0);

UCSRC = (1<<URSEL)|(1<<UCSZ0)|(1<<UCSZ1);

UCSRB=(1<<RXEN)|(1<<TXEN);

}

char USARTreadchar()

{

while(!(UCSRA & (1<<RXC)))

{

//do nothing

}

return UDR;

}

void USARTWriteChar(char data)

{

while(!(UCSRA&(1<<UDRE)))

{

//do nothing

}

UDR=data;

}

int main()

{

USARTinit(77);

DDRB=0xFF;

char data;

LED=0;

while(1)

{

data=USARTreadchar();

if(data=='1')

{

LED|=0xFF;

}

else if(data=='2')

{

LED=0x00;

}

}

return 0;

}