.nolist ; Turn listfile generation OFF

.device attiny2313 ; Set device to ATTiny2313

.include "tn2313def.inc" ; Include file for ATTiny2313

.list ; Turn listfile generation ON

.def temp = R16

.equ Tx = PB4

.cseg

.org 0x00

rjmp on\_reset ; Relative jump to "on\_reset"

on\_reset:

ldi temp, ( 1 << Tx) ; Load immediate temp with Tx as 1

out DDRB, temp ; Configure Port B with Tx as output using temp

ldi temp, ( 0 << Tx) ; Load immediate temp with Tx as 0

out PORTB, temp ; Output temp on Tx

main\_loop:

ldi temp, (1 << Tx) ; Load immediate temp with Tx as 1

out PORTB, temp ; Output temp on Tx

//rjmp delay1

ldi temp, ( 0 << Tx) ; Load immediate temp with Tx as 0

out PORTB, temp ; Output temp on Tx

rjmp delay2

rjmp main\_loop ; Relative jump back to beginning of main loop

delay1:

ldi temp, 230

delay1\_loop:

dec temp

brne delay1\_loop

ret

delay2:

ldi temp, 1

delay2\_loop:

dec temp

brne delay2\_loop

ret