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; Author : ADI - Apps www.analog.com/MicroConverter

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; Date : October 2003

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; File : blink.asm

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; Hardware : ADuC841

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; Description : Blinks LED continuously.

; 200mSec period @ 50% duty cycle.

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$MOD841 ; use 8052 predefined symbols

LED EQU P3.4 ; P3.4 is red LED on eval board

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; MAIN PROGRAM

CSEG

ORG 0000h

MOV A,#010 ; set delay length

BLINK: CPL LED ; flash (complement) the red LED

CALL DELAY ; call software delay

JMP BLINK ; repeat indefinately

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; SUBROUTINES

DELAY: ; delay 10ms X A

MOV R5,A

DLY2: MOV R7,#090h

DLY1: MOV R6,#0FFh

DJNZ R6,$

DJNZ R7,DLY1

DJNZ R5,DLY2

RET

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END