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'-----Title-----
' File: led_piezo.pbp
' Started: 1/14/11
' Microcontroller used: Microchip Technology 16F88
'                       microchip.com
' PicBasic Pro Code: micro-Engineering Labs, Inc.
'                       melabs.com

'-----Program Description-----
' 2 LEDs flash on/off and piezo buzzers buzz
' when driven by several programmed patterns.

'-----Variables-----
i   VAR BYTE

'-----Initialization-----
TRISB = %00000000 ' Sets up pin RB0 - RB7 of PORTB
                  ' as an outputs.

ANSEL = 0         ' Configure all pins to digital
                  ' operation since not using ADC
                  ' (Analog to Digital Converter)

OSCCON = $60      ' Sets the internal oscillator in the
                  ' 16F88 to 4 MHz

'-----Main Code-----

start:

FOR i = 1 TO 4
HIGH 0
LOW 1
PAUSE 250
LOW 0
HIGH 1
PAUSE 250
NEXT i

FOR i = 1 TO 15
HIGH 0
LOW 1
PAUSE 50
LOW 0
HIGH 1
PAUSE 50
NEXT i
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FOR i = 1 TO 70
HIGH 0
LOW 1
PAUSE 15
LOW 0
HIGH 1
PAUSE 15
NEXT i

FOR i = 1 TO 75
HIGH 0
PAUSE i
LOW 0
HIGH 1
PAUSE 75 - i
LOW 0 : LOW 1
NEXT i

PAUSE 1000

FOR i = 1 TO 2
HIGH 0
PAUSE 50
LOW 0
PAUSE 500
HIGH 1
PAUSE 50
LOW 1
PAUSE 250
HIGH 1
PAUSE 50
LOW 1
PAUSE 250
HIGH 0
PAUSE 50
LOW 0
PAUSE 500
HIGH 1
PAUSE 50
LOW 1
PAUSE 1000
HIGH 0
PAUSE 50
LOW 0
PAUSE 500
HIGH 0
PAUSE 50
LOW 0
PAUSE 1000
NEXT i

GOTO start      ' Jump to start label

END
```