/\* Main.c file generated by New Project wizard

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\* Created: Thu Sep 28 2023

\* Processor: MSP430G2553

\* Compiler: GCC for MSP430

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#include <msp430.h>

#define IR\_SENSOR\_PIN BIT0 // Input from IR sensor (adjust as needed)

#define BUZZER\_PIN BIT1 // Output to control buzzer (adjust as needed)

void main(void)

{

WDTCTL = WDTPW | WDTHOLD; // Stop the Watchdog Timer

P1DIR &= ~IR\_SENSOR\_PIN; // Set IR sensor pin as input

P1REN |= IR\_SENSOR\_PIN; // Enable pull-up resistor on IR sensor pin

P1OUT |= IR\_SENSOR\_PIN; // Set pull-up resistor

P1DIR |= BUZZER\_PIN; // Set buzzer pin as output

P1OUT &= ~BUZZER\_PIN; // Initially turn off the buzzer

int i;

while (1)

{

if ((P1IN & IR\_SENSOR\_PIN)) // Check if IR sensor output is High (object detected)

{

P1OUT |= BUZZER\_PIN; // Turn on the buzzer

for(i=0;i<100;i++); // Delay to avoid rapid toggling (adjust as needed)

}

else

{

P1OUT &= ~BUZZER\_PIN; // Turn off the buzzer

}

}

}