LAB # 02

LAB NO. 2 BASIC MICROCONTROLLER (MSP430) PROGRAMMING

USING C LANGUAGE



Spring 2025

CSE-307L

Microprocessor Based System Design Lab

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Class Section: B

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Submitted to:

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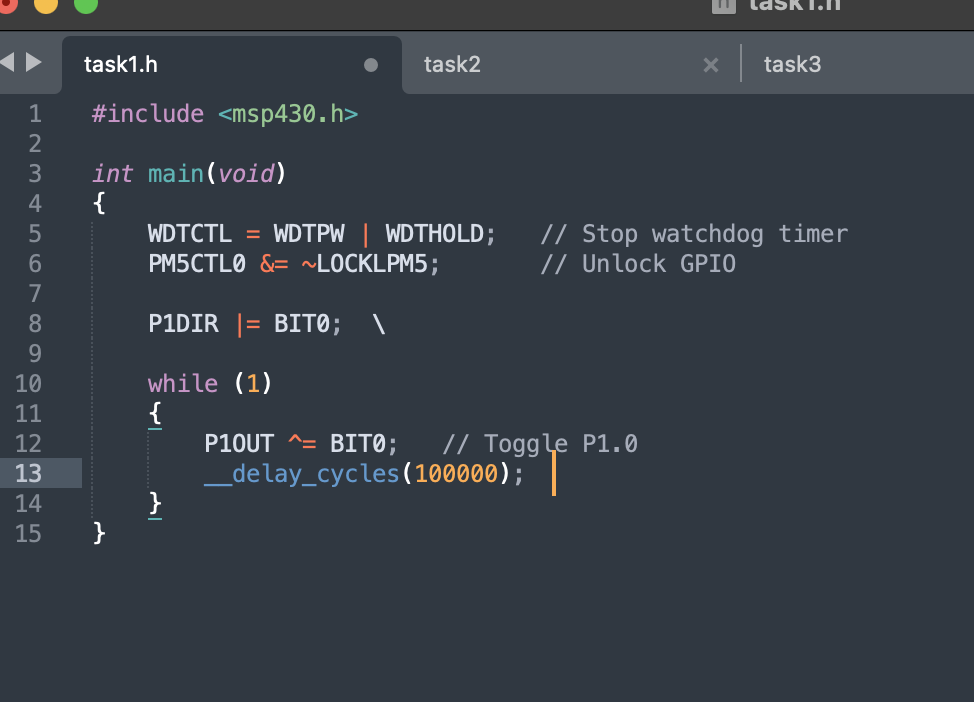
Department of Computer Systems Engineering

University of Engineering and Technology, Peshawar

# Task 1

Write a program for MSP-430 which toggle P1.0 or any other pin of MSP-430 MCU

Code:



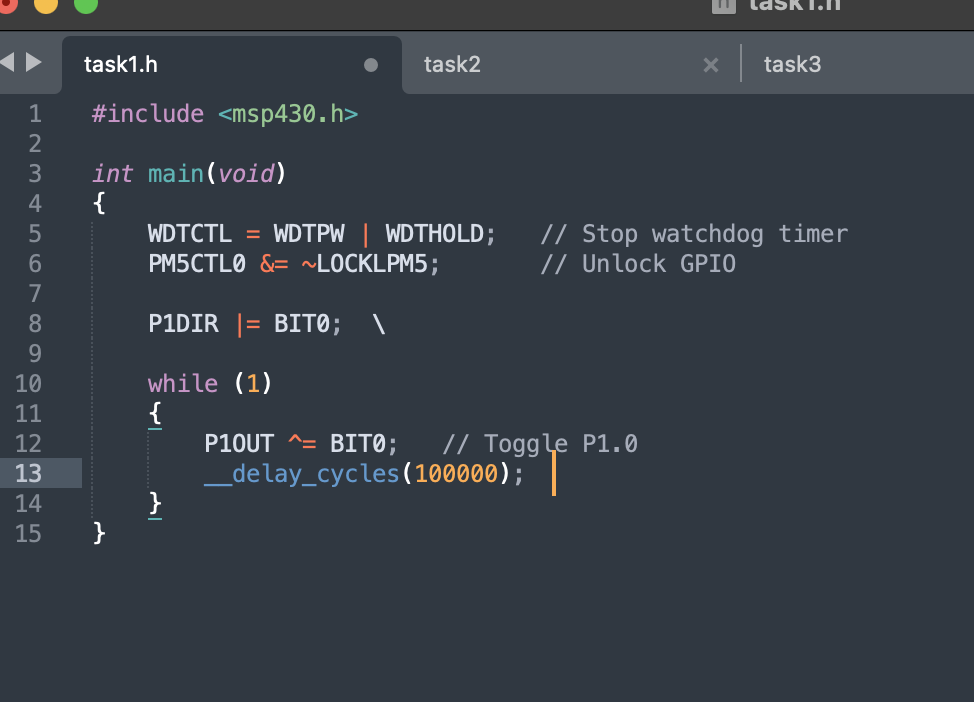
Output:

A red circuit board with a display and wires

AI-generated content may be incorrect.

# Task 2

Write a program for MSP-430 which toggle LEDs attached with P1.0 and P1.7 at the same time with different delays.

Code: 

Output:

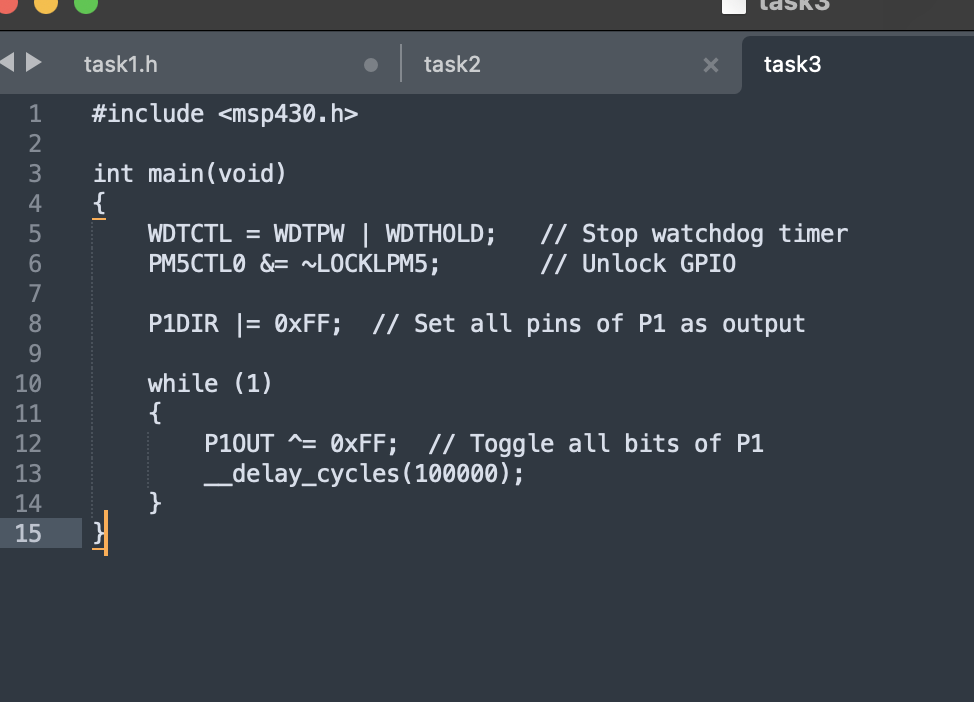
A close up of a circuit board

AI-generated content may be incorrect.

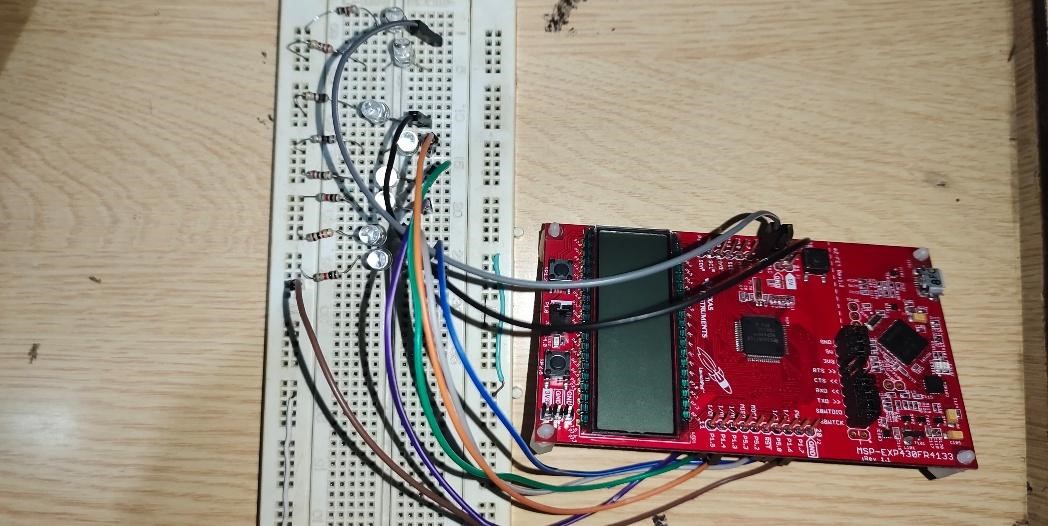
# Task 3

Write a program for MSP-430 to toggle all the LEDs attached with P1 or any other PORT

Code:

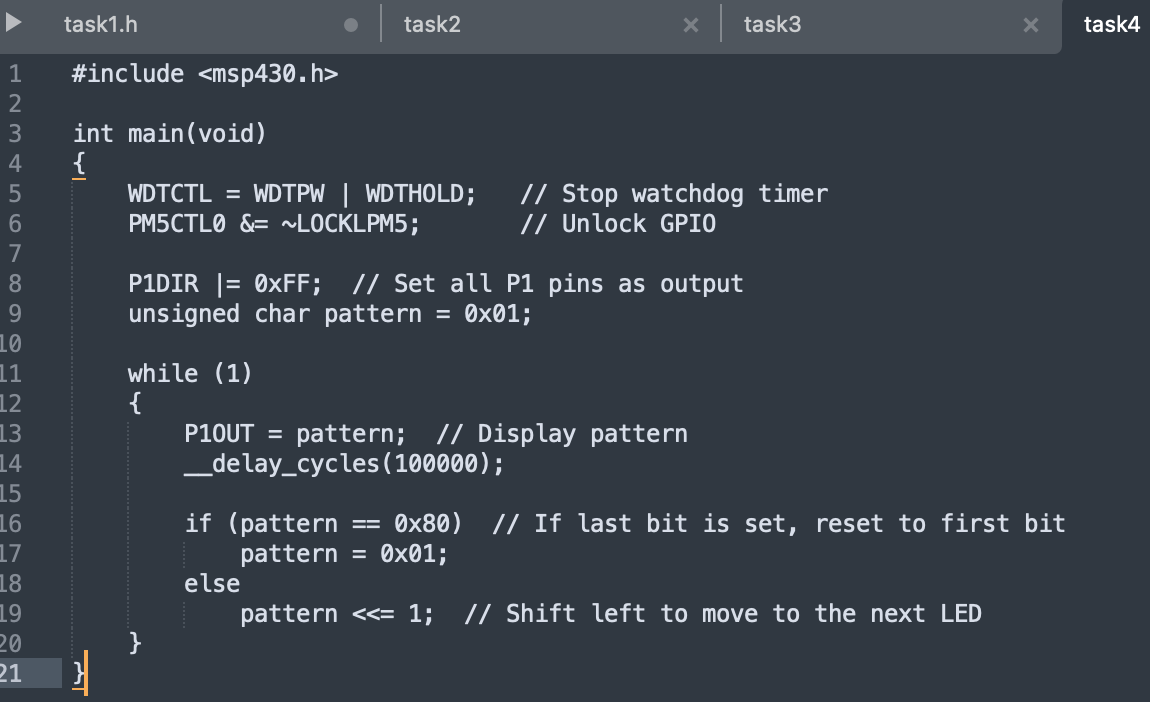
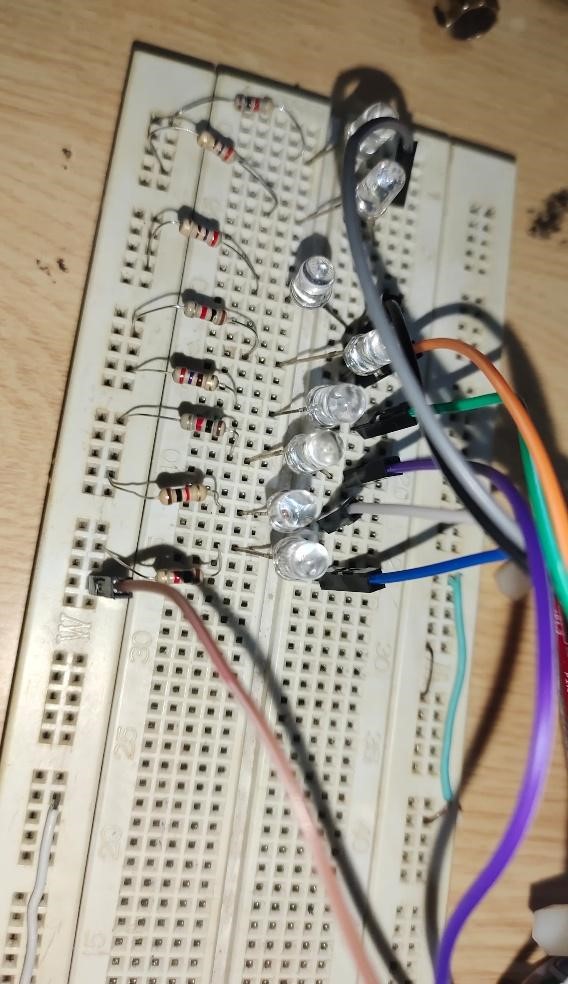


Output:



# Task 4

Display the pattern using C language 00000001 00000010 00000100 …. 10000000 00000001 00000010 Continuously Code:



Output: