**Lab 11**

**Keypad interfacing (port multiplexing)**

Spring 2025

Submitted by: Mohsin Sajjad

Registration No: 22pwsce2149

Class Section: A

“On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work.”



Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Submitted to:

Engr. Faheem Jan

Month Day, Year (25 05, 2025)

Department of Computer Systems Engineering

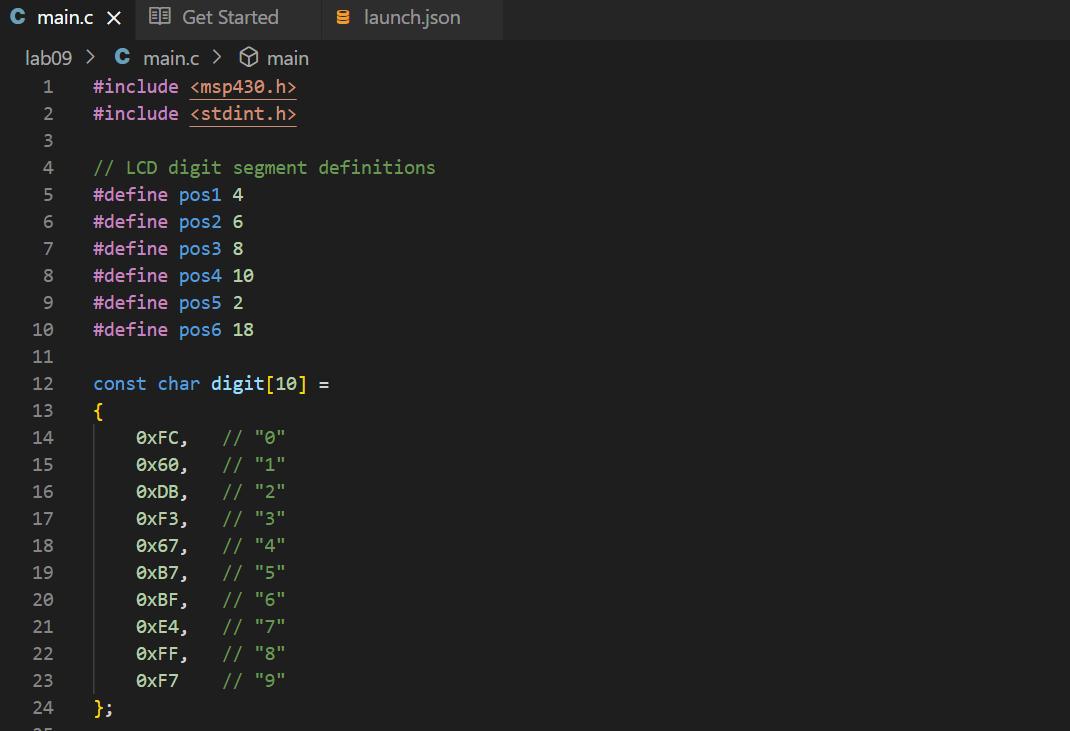
University of Engineering and Technology, Peshawar

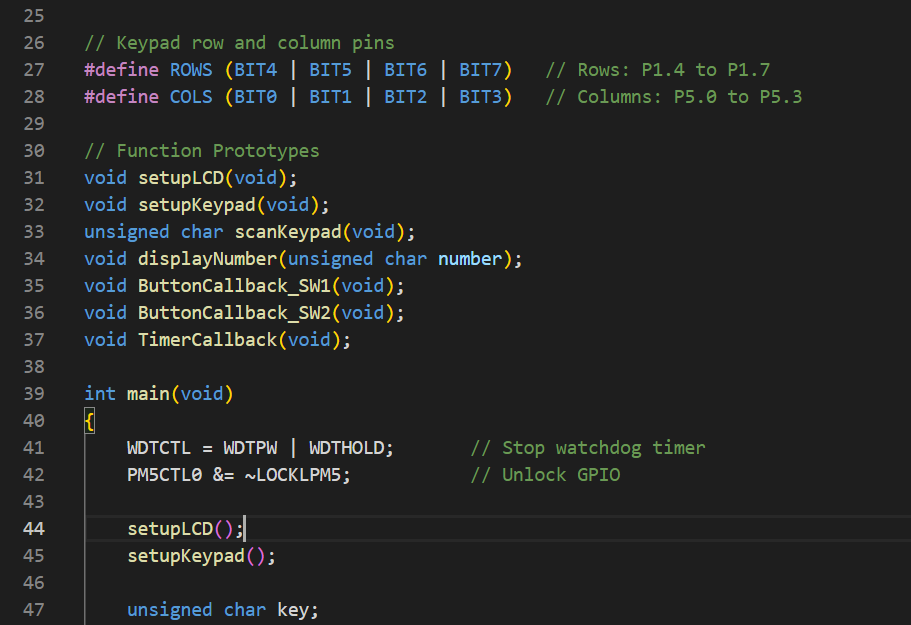
**Keypad interfacing (port multiplexing)**

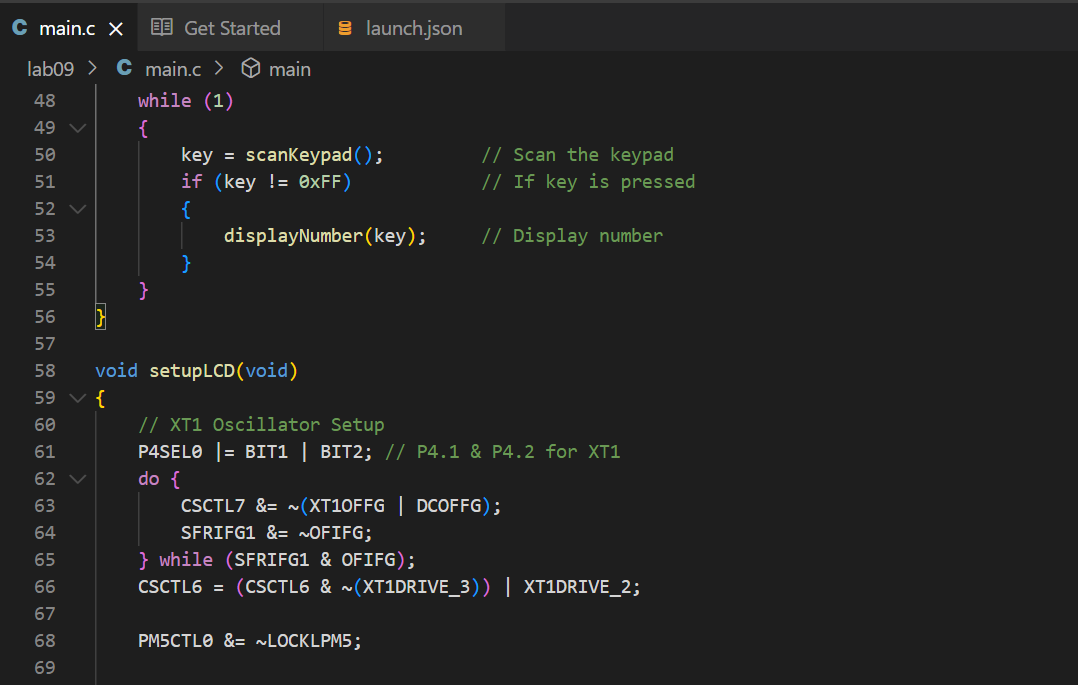
**TASKS:**

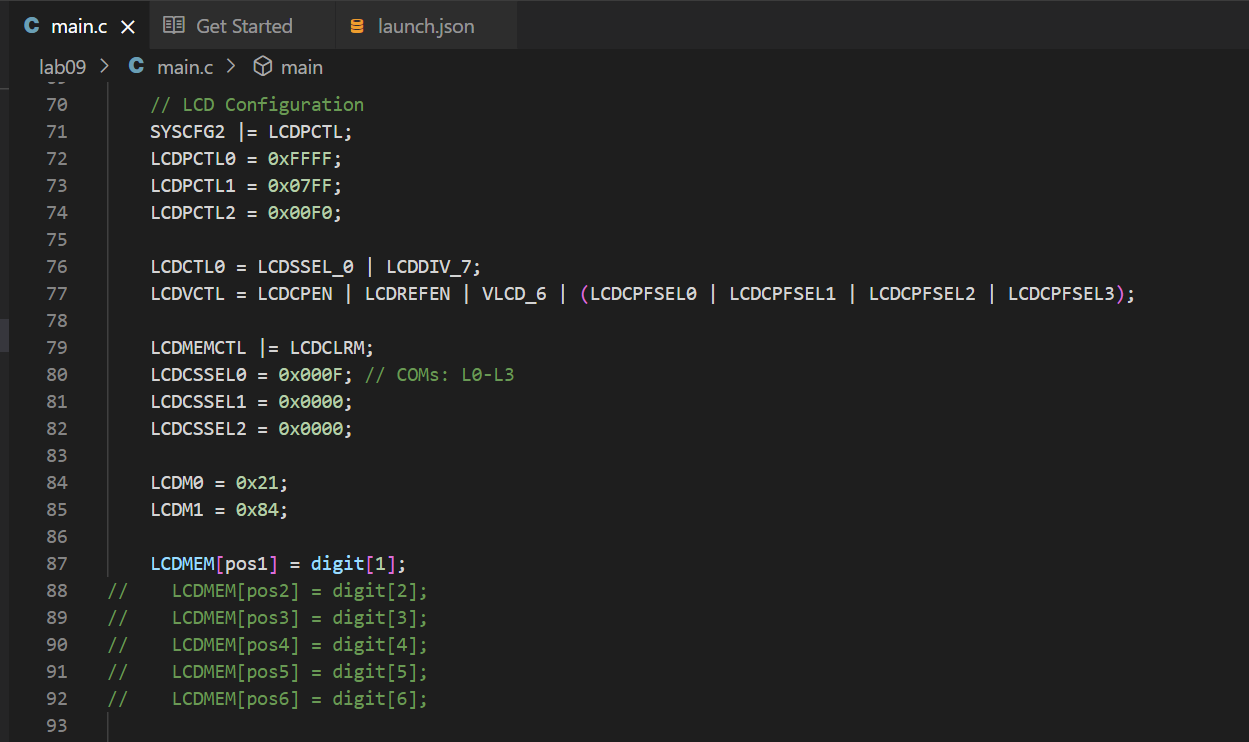
1. Run the program given in the lecture

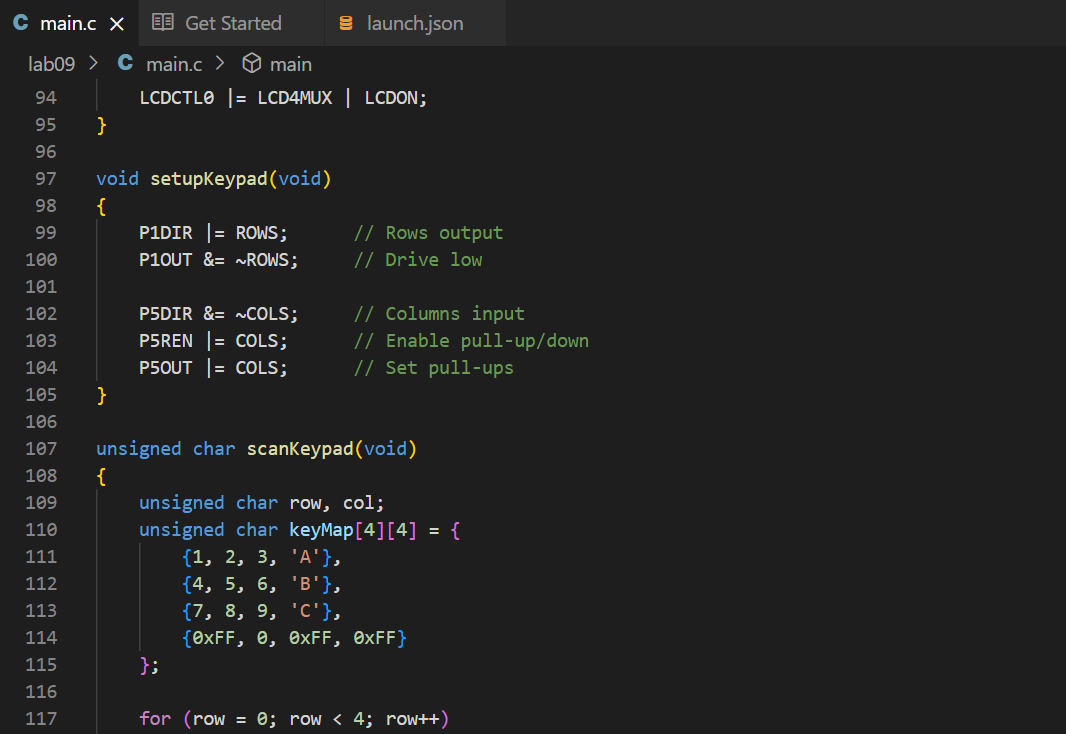
**CODE:**

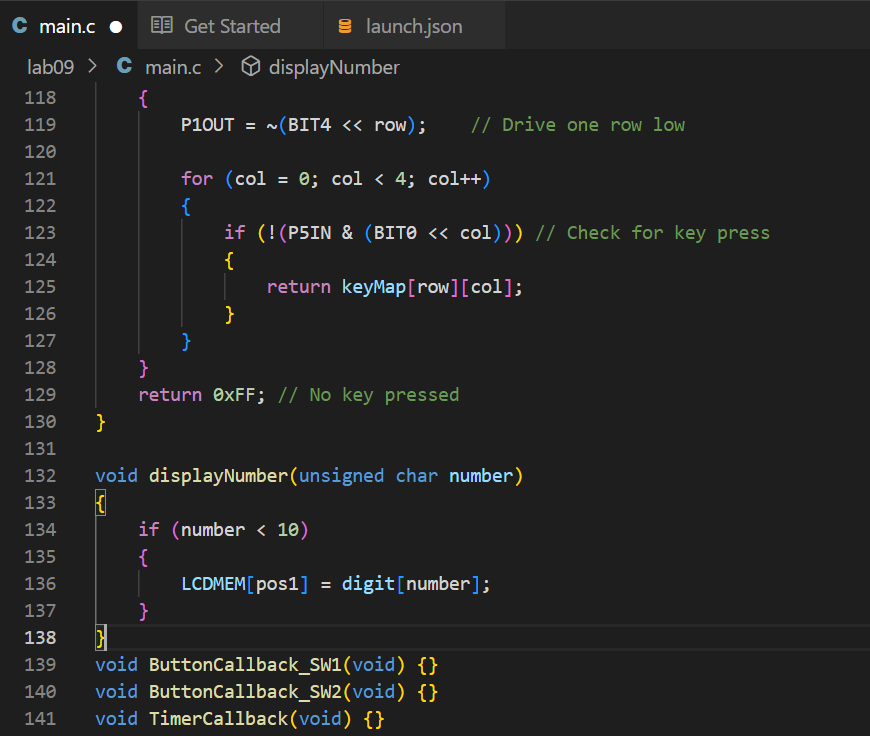
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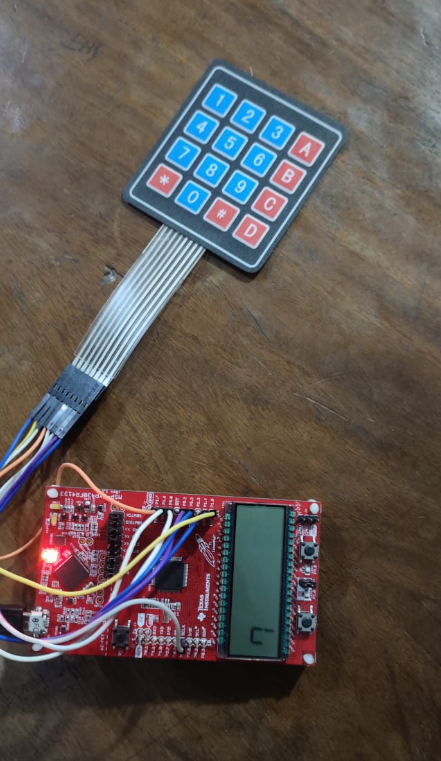
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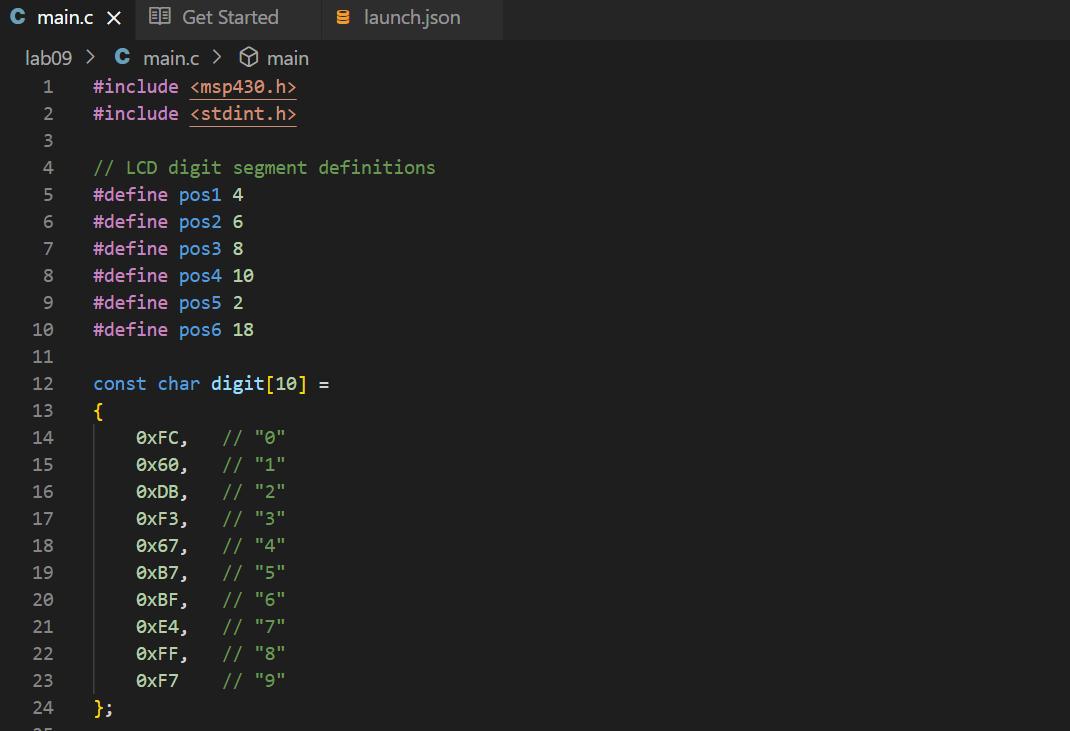
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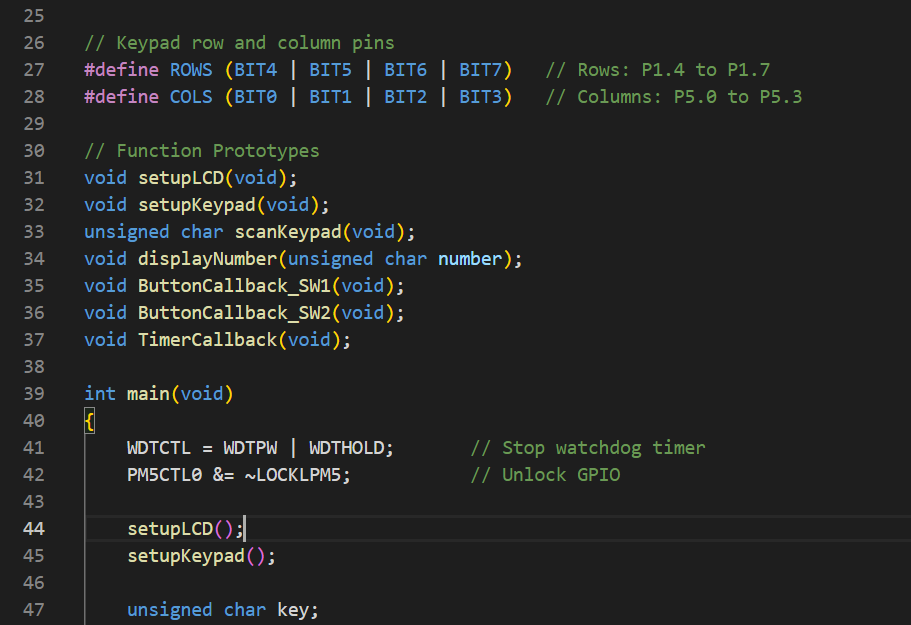
**OUTPUT:**

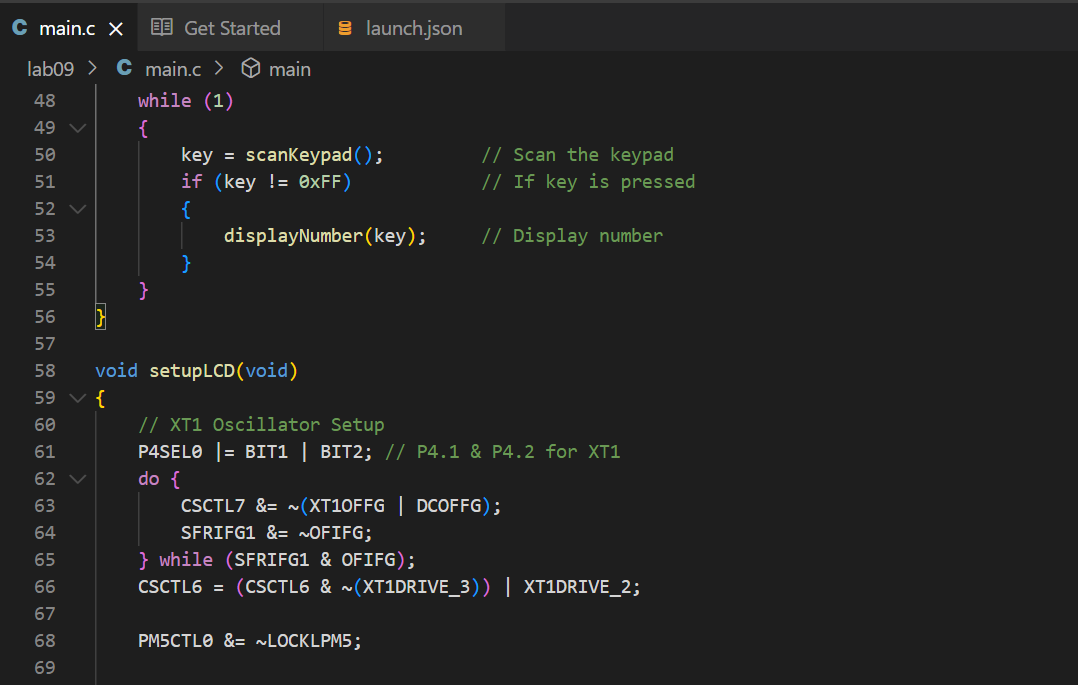
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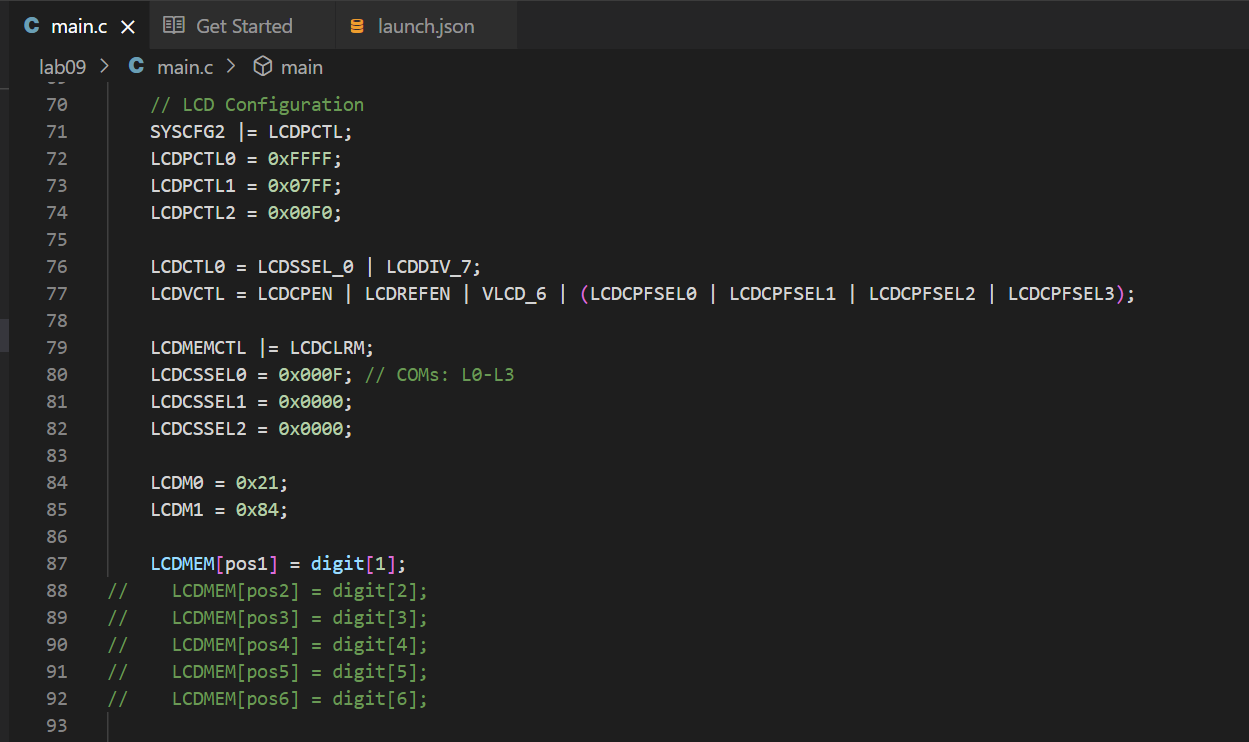
2) Display Number from to 1 to 9 on the onboard LCD (available on the Launchpad) of the MSP430Fr4133 MCU.

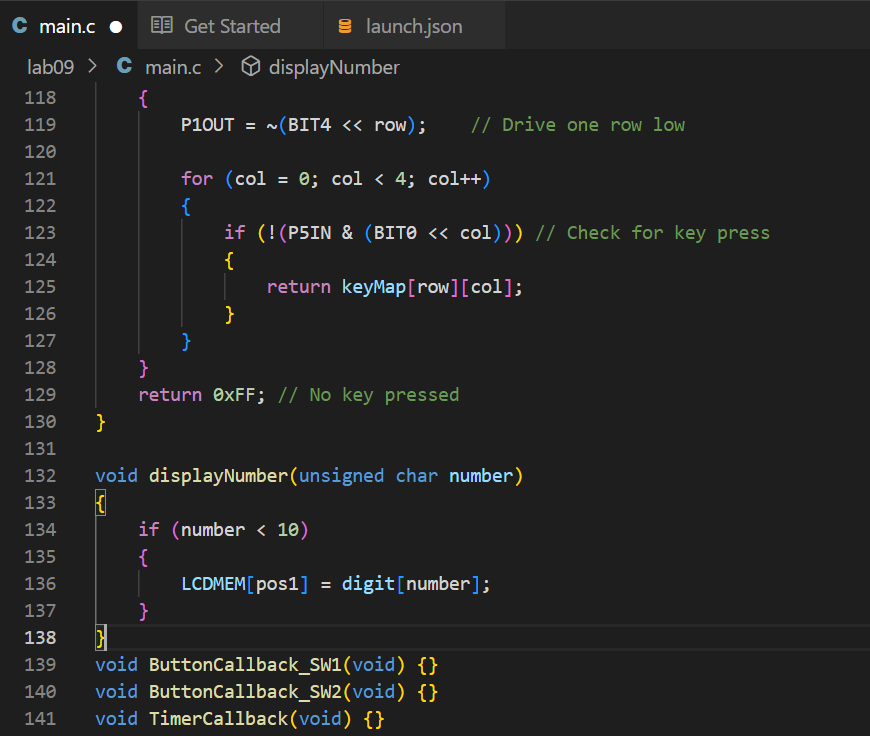
CODE:

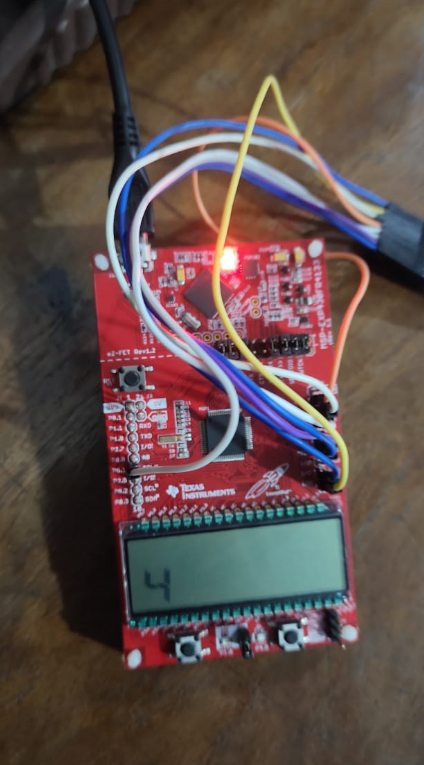
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**Output:  
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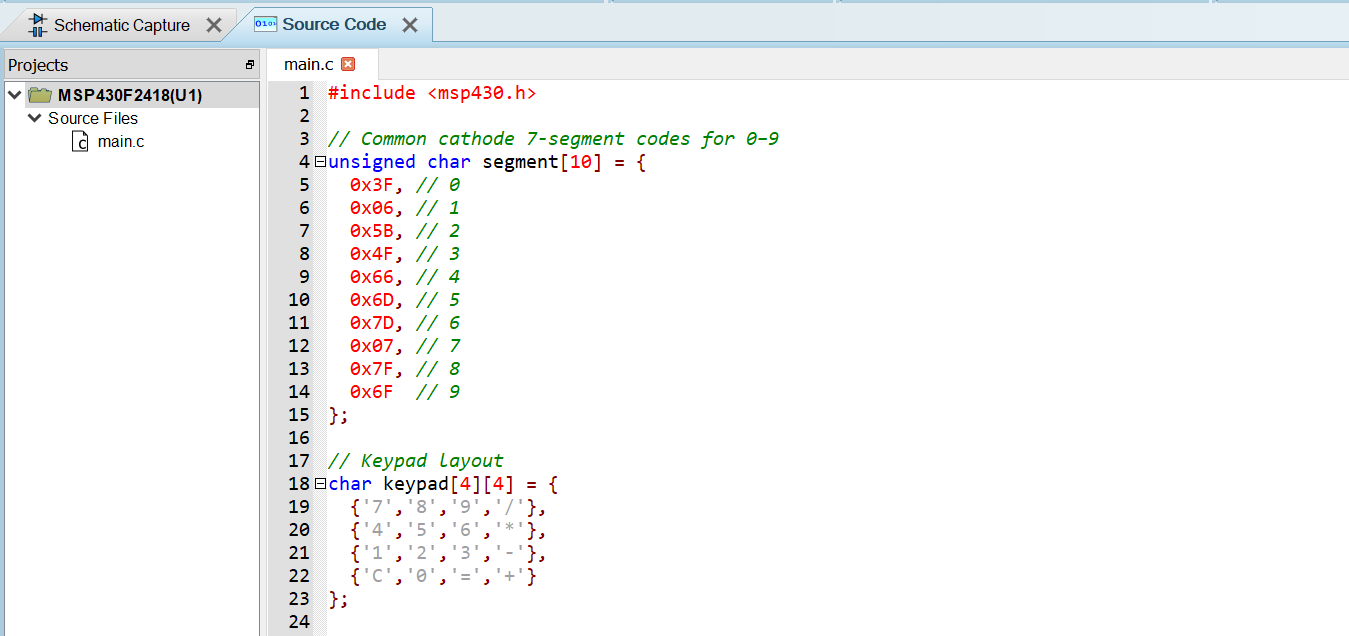
**(Home Task)**

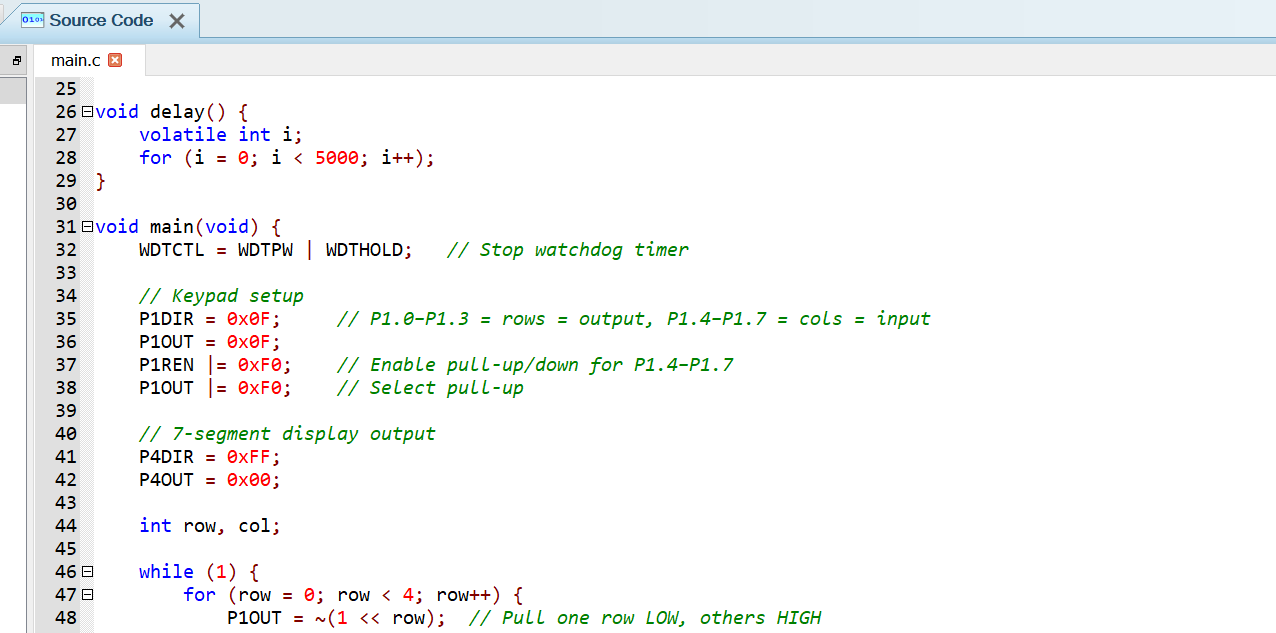
2) Display Numbers from 1 to 9 on the seven segment display and ON

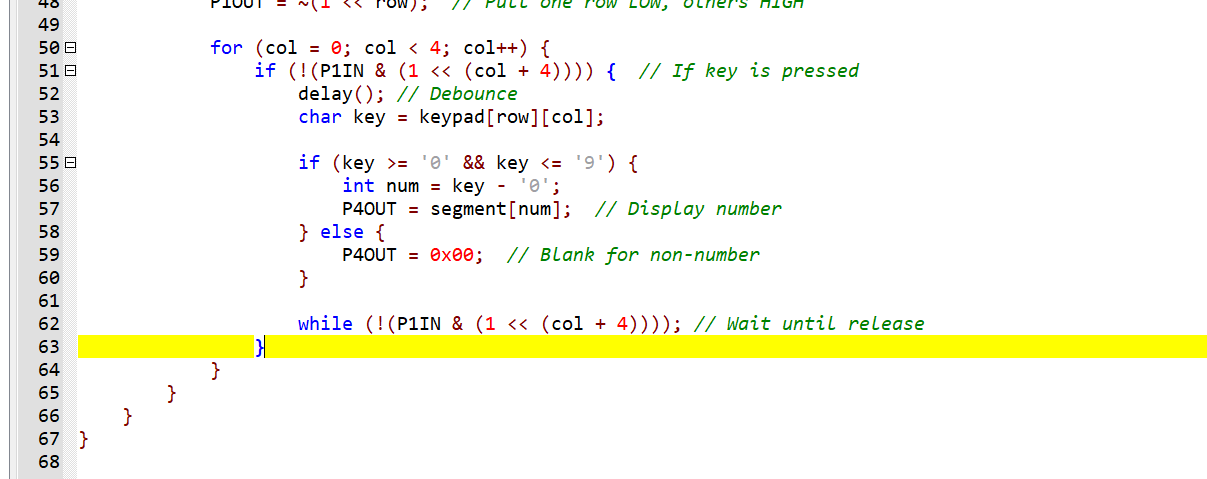
the corresponding LED’s attached with any PORT of the MCU

Note: Attach the seven segment with P3 or any other PORT and

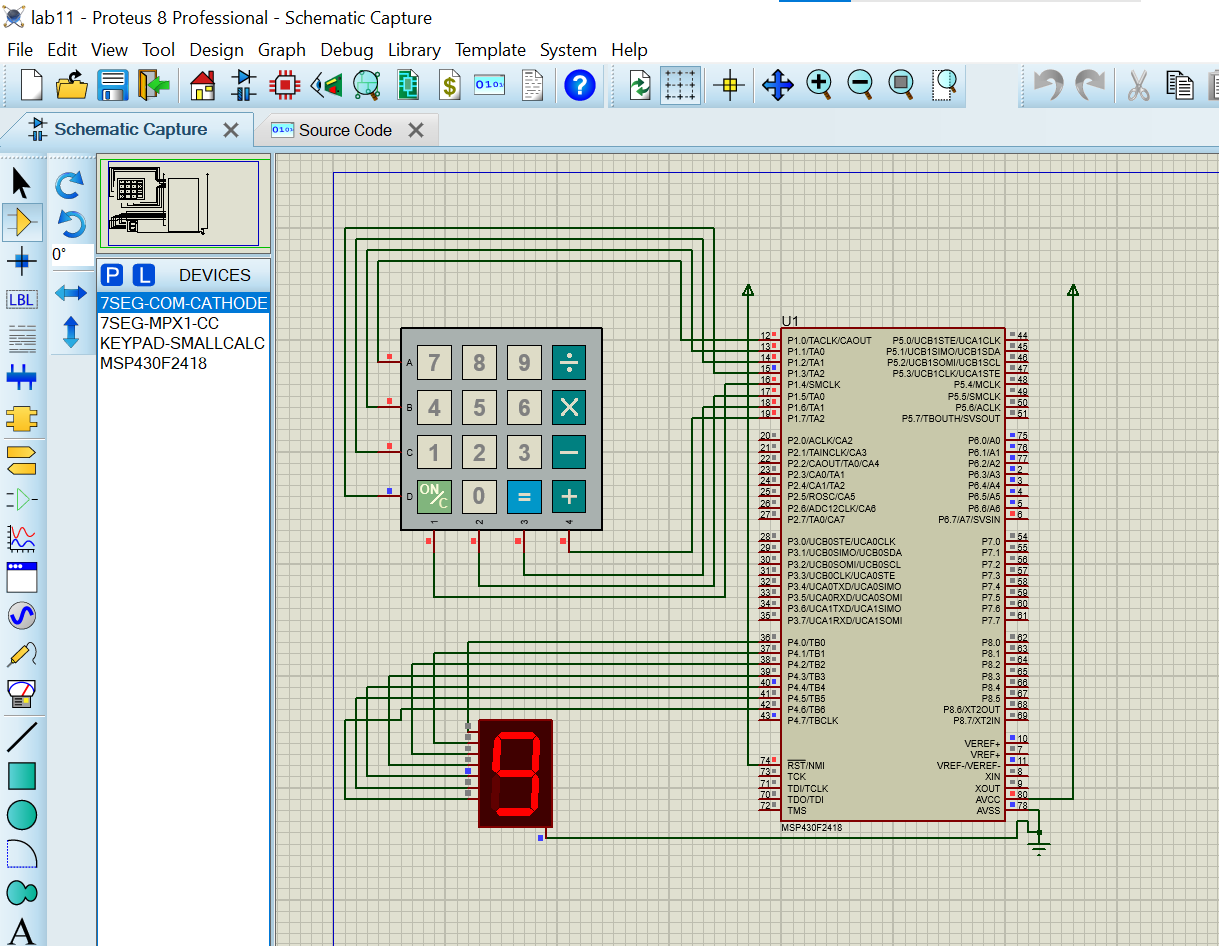
keypad with P1 or any other Port (you can use proteus).

**CODE:  
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**Output:**

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