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CST 250

5/18/18

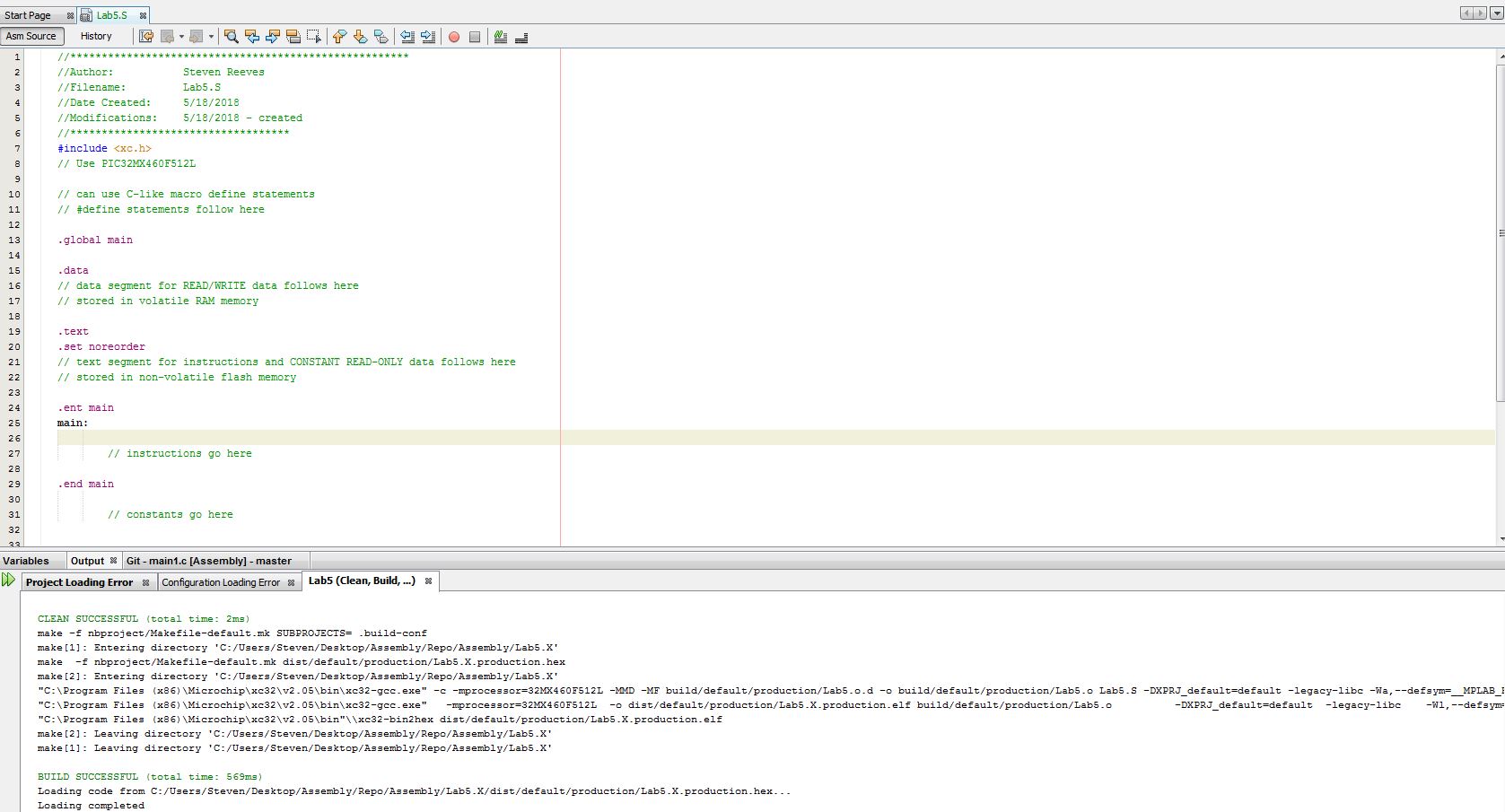
Lab 5 Report

**Introduction:**

The objective of this lab is to parse a string, evaluate the digits, keep a tally of different digits, and output this total. Creation and manipulation of the stack frame during function calls is another big objective here.

**Part 1:**

Part 1 of this lab had us review a different lab file, “CST250 - Lab 05”. After careful review, I first created a new .S project in the MPLAB IDE. After re-opening the IDE, I built and ran the project to make sure everything was working well.



After noting where the string to be parsed would be stored (bottom of the .text section), I followed the steps in the separate lab file to set up the UART output window.

- Open the Project Properties window

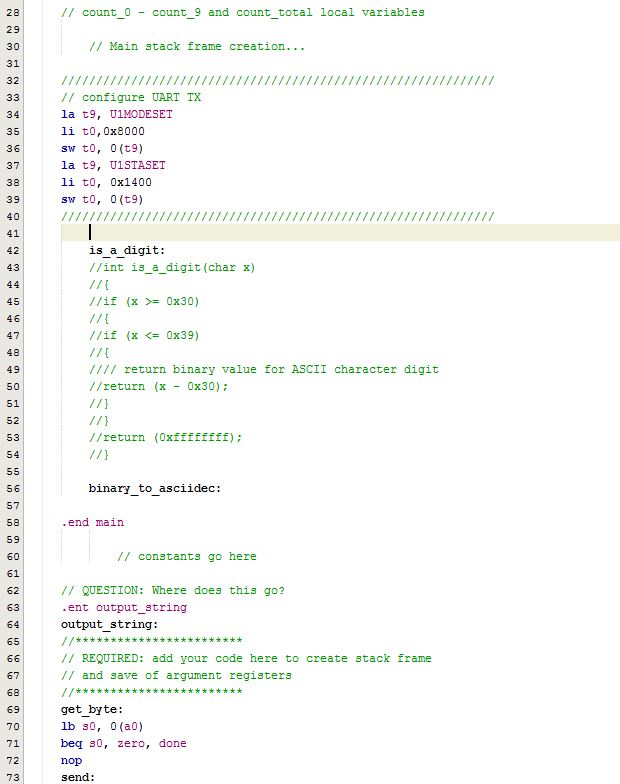
- Navigate to Conf:[default] -> Simulator -> Option categories

- Use dropdown menu to choose “Uart1 IO Options”

- Click the box to activate “Enable Uart 1 IO”

- Apply changes and exit window

I then added the verbatim code from the lab document for configuring the UART TX and the output\_string function. I also added the labels for is\_a\_digit and binary\_to\_asciidec. A clean and build showed that I was good to go thus far.



**Conclusion:**

- Where do functions go? .ent?

- answered with example