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CST 250

6/2/18

Lab 6 Report

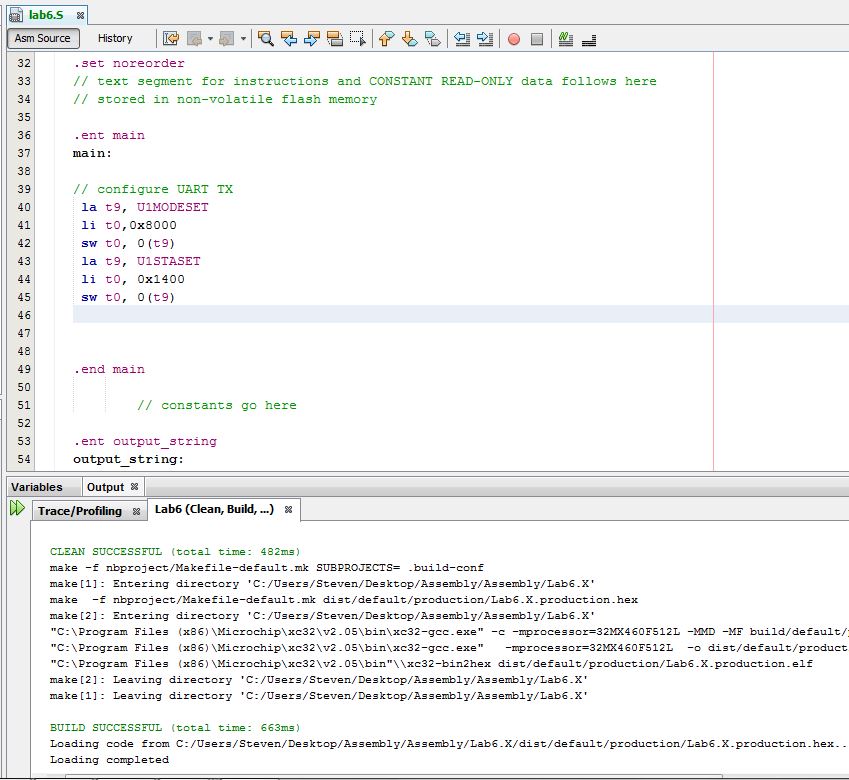
**Introduction:**

The objective of this lab is to replicate the functionality of the square root function. This function will be used to calculate the integer square root of an unsigned 32 bit integer.

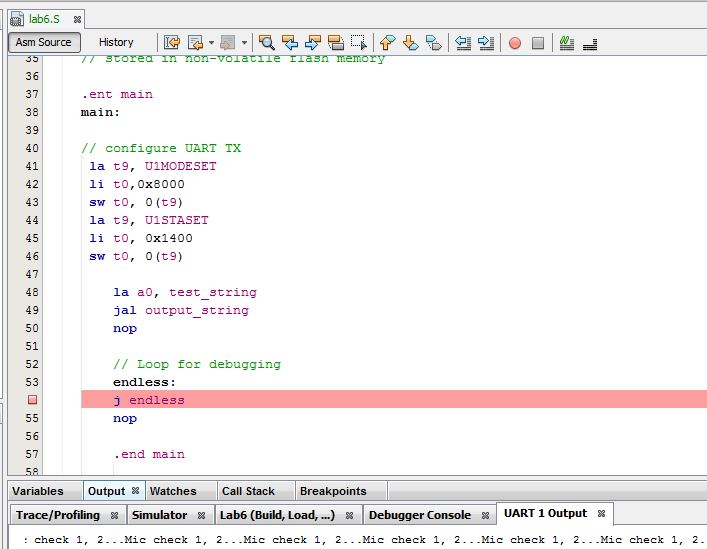
**Part 1:**

The first part of this lab had me set up a UART1 console output and make sure everything builds. I used the setup from Lab 5 and double checked to make sure everything was building correctly. I also included macros for push, pop, and the output\_string function. After following the instructions in Lab 5 for setting up the UART output I tested a build.

[PHOTO of setting up lab 5]



I then added a test string to make sure output\_string was working correctly.



After confirming this worked, I reviewed the description document. After reading the first sentence in that document, I copied the binary\_to\_asciidec function from lab 5 into this project and built to make sure all is well. I then added the call stack functionality from Lab 5 as described in the documentation.

[add stack frame]

Finally, I added stubs for the needed functions, and checked again that everything built correctly.

**Part 2:**

**Part 3:**

**Conclusion:**