CPE301 – SPRING 2019

Design Assignment 1A

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Primary Github address: https://github.com/buenj1/submission\_da.git

Directory:

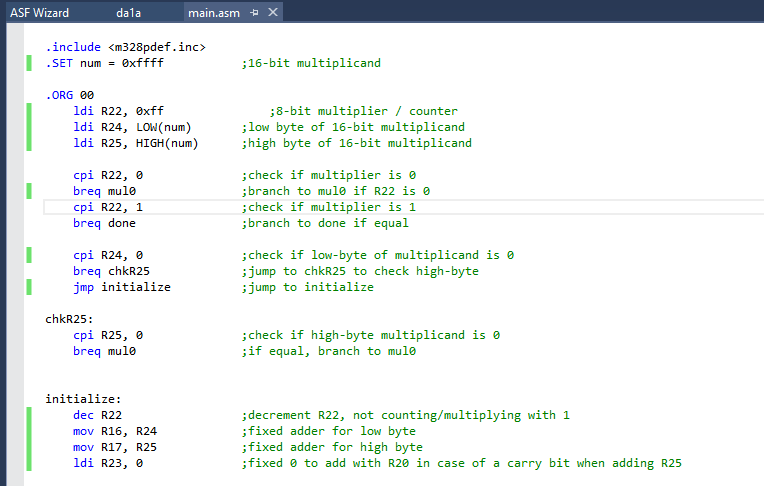
Submit the following for all Labs:

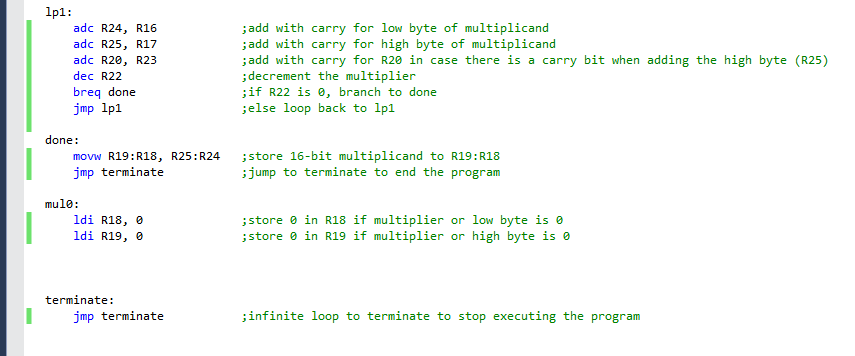
1. In the document, for each task submit the modified or included code (only) with highlights and justifications of the modifications. Also, include the comments.
2. Use the previously create a Github repository with a random name (no CPE/301, Lastname, Firstname). Place all labs under the root folder ESD301/DA, sub-folder named LABXX, with one document and one video link file for each lab, place modified asm/c files named as LabXX-TYY.asm/c.
3. If multiple asm/c files or other libraries are used, create a folder LabXX-TYY and place these files inside the folder.
4. The folder should have a) Word document (see template), b) source code file(s) and other include files, c) text file with youtube video links (see template).

1. **COMPONENTS LIST AND CONNECTION BLOCK DIAGRAM w/ PINS**

Not required for this assignment

1. **INITIAL/MODIFIED/DEVELOPED CODE OF TASK 1/A**





1. **DEVELOPED MODIFIED CODE OF TASK 2/A from TASK 1/A**
2. **SCHEMATICS**

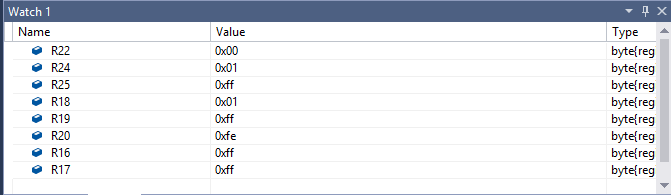
Not required for this assignment

1. **SCREENSHOTS OF EACH TASK OUTPUT (ATMEL STUDIO OUTPUT)**

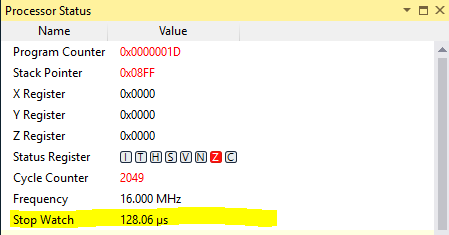
Before execution (with initialized values):



After execution:



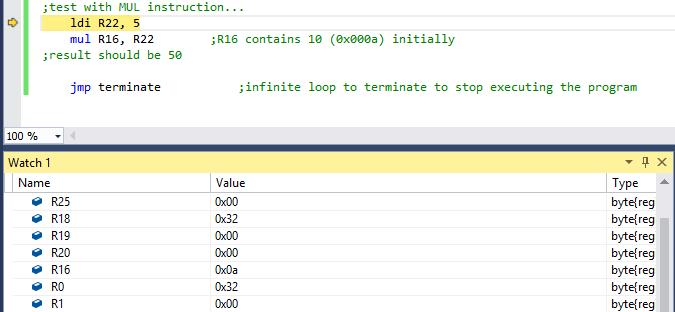
Execution Time (maximum) @ 16MHz:



Test with MUL instruction:

Initial values: R22 = 5, R16 = 10

Result is stored in R0 and R1



1. **SCREENSHOT OF EACH DEMO (BOARD SETUP)**

Not required for this assignment

1. **VIDEO LINKS OF EACH DEMO**

Not required for this assignment

1. **GITHUB LINK OF THIS DA**

https://github.com/buenj1/submission\_da.git

**Student Academic Misconduct Policy**

<http://studentconduct.unlv.edu/misconduct/policy.html>

“This assignment submission is my own, original work”.

JOHN PATRICK BUEN