CPE301 – SPRING 202020

Design Assignment 1B

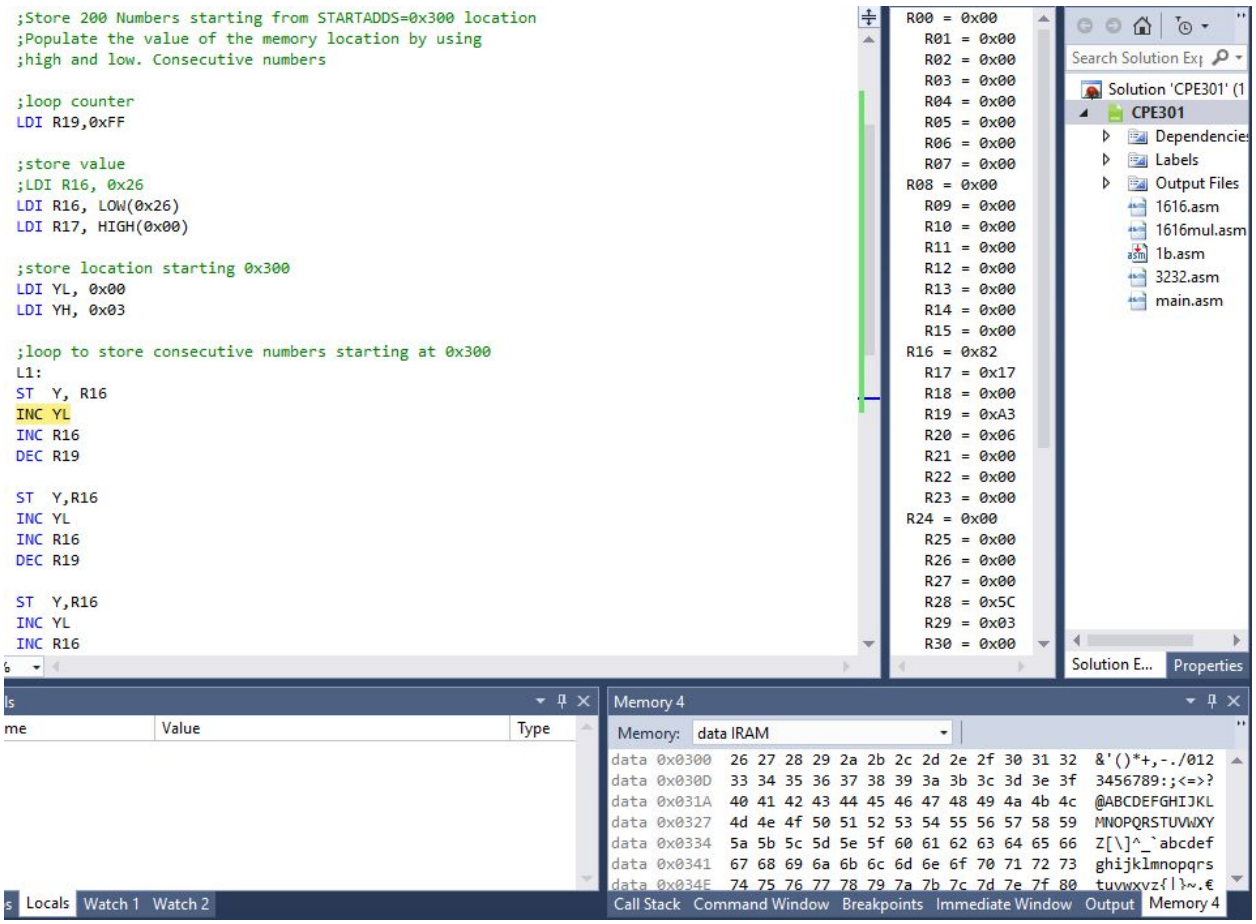
Student Name: Jasper Estorco
Student #: 2000836259
Student Email: estorco@unlv.nevada.edu
Primary Github address: https://github.com/toobsock/online_submission/
Directory: https://github.com/toobsock/online_submission/tree/master/DA/1B

1. DEVELOPED MODIFIED CODE OF TASK 1 from TASK 1B

```
/*
 * 1b.asm
 *
 *  Created: 2/21/2020 7:55:52 PM
 *   Author: lbc
 */

  .include <m328pbdef.inc>

 .ORG 0

;Store 200 Numbers starting from STARTADDS=0x300 location
;Populate the value of the memory location by using
;high and low. Consecutive numbers

;loop counter
LDI R19,0xFF

;store value
;LDI R16, 0x26
LDI R16, LOW(0x26)
LDI R17, HIGH(0x00)

;store location starting 0x300
LDI YL, 0x00
LDI YH, 0x03

;loop to store consecutive numbers starting at 0x300
L1:
ST        Y, R16 ;Store the number to Y
INC YL ;increment memory location value
INC R16 ;increase value to store
DEC R19 ;decrement counter

ST        Y,R16 ;Store the number to Y
INC YL ;increment memory location value
INC R16 ;increase value to store
DEC R19 ;decrement counter
```

```
ST        Y,R16 ;Store the number to Y
INC YL ;increment memory location value
INC R16 ;increase value to store
DEC R19 ;decrement counter

ST        Y,R16 ;Store the number to Y
INC YL ;increment memory location value
INC R16 ;increase low value to store
INC R17 ;increase high value to store
DEC R19 ;decrement counter
BRNE L1 ;finish when counter = 0
```

2. SCREENSHOTS OF EACH TASK OUTPUT (ATMEL STUDIO OUTPUT)



3. GITHUB LINK OF THIS DA

https://github.com/toobsock/online_submission/tree/master/DA/1B

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"*This assignment submission is my own, original work*".
Jasper Estorco