Andrew baca Lab 8 out

```
Sun 14:22
                                                                                                                                                                                                                                                                                                                               SASM
  File Edit Build Debug Settings Help
  *New 🗶 sumofsq.asm 🗶 lab8.asm 🗶
     1 ;modified by andrew baca 4/15/18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10
  3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 3 24 4 25 6 27 28 9 30 31 34 35 36 37 38 39
                 %include "io64.inc"
section .data
                  _L0: db "enter a number", 0
_L1: db "the number is ", 0
_L2: db "result is: ", 0
section .text
global main
                                                                                                                                                                                                                                  CHANGED LABEL
                                                                                                                               ;SPECIAL RSP to RSB for MAIN only
;FUNC header RSP has to be at most RBP
;adjust Stack Pointer for Activation record
;FUNC header store old BP
;FUNC header store old SP
;FUNC header store old SP
;FUNC header new SP
                                                                                                                                                                                                                                                                                              //adjust offset for accepted word
                                               mov rsp, r8 ; FUNC header new SP

PRINT_STRING_L0 ; print a string
MEWLINE ; standard Write a NEWLINE
mov rax, 96 ; det Identifier offset
add rax, rsp ; Add the SP to have direct reference to memory
GET_DEC 8, [rax] ; READ in an integer
PRINT_STRING_L1 ; print a string
NEWLINE ; standard Write a NEWLINE
mov rax, 96 ; add rax, rsp ; Add the SP to have direct reference to memory
mov rsi, [rax] ; get Identifier offset
add rax, rsp ; Add the SP to have direct reference to memory
mov rsi, [rax] ; load rsi with the ident VALUE
PRINT_DEC 8, rsi , standard Write a NEWLINE
;mov rsp, [rsp] ; FUNC end restore old BP
;mov rsp, [rsp+8] ; FUNC end restore old SP
;mov rsp, rop ; stack and BP need to be same on exit for main
                                                                                                                                                                                                                                                                                                                                        readNum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 enter a number
the number is
10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   result is:
385
                                 ;END OF READNUM
;START while loop som of squares STMT
mov rdx, 1
mov [rsp + 32], rdx
;STORE RHS of ASSIGN temporarily
| 39 | mov [rsp + 32] , rdx ; STORE RHS |
| 13:20:05] Build started... |
| 13:20:05] Warning Errors have occurred in the build: |
| 14:20:31] Warning Errors have occurred in the build: |
| 14:20:31] Build started... |
| 14:22:31] Brorgoram is executing... |
| 14:22:31] The program finished normally. Execution time: 0.001 s
```