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lab8.s
            Mon Feb 13 22:43:02 2023
// Ezekiel Kim
// Lab 8
// Program to Store into variables
// Ezekiel Kim
// /2023
//
        .qlobal _start // Provide program starting address
        .data
               bA:
                      .skip
               chInit: .skip
               u16Hi: .hword 0
               wAlt:
                      .word 0,0,0
               szMsgl: .skip 10
               dbBig: .quad 0
               bAv:
                      .byte 155
               chInv: .byte
                               ′j′
               u16Hiv: .hword 88
               wAlt1: .word 16
               wAlt2: .word
                               -1
               wAlt3: .word -2
szMsgv: .asciz "And Sally"
dbBigv: .quad 9223372036854775807
        .text
start:
// For bA
                      =bAv
                              // Value to store in bA
               х0,
       ldr
       ldr
               х0,
                      [x0]
               x1,
                              // Address to store bA
       ldr
                       =bA
                      [x1]
                              // Store value into bA
       strb
               w0,
// For chInit
       ldr
              x0,
                      =chInv // Value to store in bA
       ldr
              х0,
                      [x]
                       =chInit // Address to store chInit
       ldr
              x1,
                      [x1] // Store value into chInit
       strb
              w0,
// For u16Hi
       ldr
                      =u16Hiv // Value to store in u16Hi
               х0,
                      [x0]
       ldr
               х0,
               x1,
                       =u16Hi // Address to store u16Hi
       ldr
                      [x1] // Store value into u16Hi
       strh
               w0,
// For wAlt[0]
                      =wAlt1 // Value to store in wAlt
       ldr
               x1,
       ldr
               x1,
                       [x1]
       ldr
              x2,
                       =wAlt2 // Value to store in wAlt
       ldr
              x2,
                       [x2]
       ldr
              х3,
                       =wAlt3 // Value to store in wAlt
       ldr
              х3,
                       [x3]
              x0,
                               // Address to store wAlt
       ldr
                       =wAlt
              x1,
                      [x0] // Stores array value
       str
                     [x0, #4] // Stores array value
[x0, #8] // Stores array value
              x2,
       str
              х3,
       str
// For szMsg
              х0,
                      =szMsgv // Value to store in szMsg
       ldr
       ldr
              х0,
                      [x0]
       ldr
              x1,
                      =szMsq1 // Address to store szMsq
                      [x1] // Stores value into msg
       str
              х0,
// For last two bits
                      =szMsgv // Value before changing value
       ldr x0,
       ldr
               x1,
                       =szMsg1 // Value to reference where to store
                              #8
```

add

х0,

x0,

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        ldrh w0, strh w0,
                     [x0]
[x1, #8]
// For dbBig
                       =dbBigv // Value to store in dbBig [x0]
        ldr
               x0,
        ldr
               x0,
                        =dbBig // Address to store dbBig [x1] // Stored
        ldr
               x1,
        str
               х0,
// Setup the parameters to exit the program and then call Linux to do it.
                x0, #0 // Sets return code to 0
x8, #93 // Service command code 93 terminates
                 x8,
        mov
                        // Call linux to terminate the program
                0
        svc
        .end
```