

## Lecture 11 Program 2

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##      Lecture 11 program 2
##      Prints out answer to  $5 \times 7^2 - 3$ , where  $x=7$ 
##      Output is: "Answer = 242"

main:   .text
        li $t0, 7          # load x (7) in $t0
        move $a0, $t0      # Copy x (7) to Reg. a0
        mul $a0, $a0, $t0  # Form X squared (7-squared or 7x7)
        mul $a1, $a0, 5    # Form 5X squared (5x7x7)
        sub $a2, $a1, 3    # Form (5X squared)-3 ([5x7x7]-3)
        la $a0, ans        # Put string address into a0
        li $v0, 4          # Load print string syscall code
        syscall            # Output "answer = "
        move $a0, $a2      # Put answer in a0 (number printed out)
        li $v0, 1          # Load print integer syscall code
        syscall            # Print integer in a0
        li $v0, 10         # "Done" -- i.e., stop

        .data
ans:     .asciiz "Answer = "

#      End of file program "lecture 11 program 2"
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