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#############################################################################
# Kody Gentry, CS 2318-003, Assignment 2 Part 1 Program D
#############################################################################
# Program that prompts the user to enter the integer scores for Exam 1,
# Exam 2 and Final Exam, read the scores, compute the weighted avg score
# (using the following formula), and display a labeled output about
# the weighted avg score.
# Score = e1(128/637)+e2(307/1024)+fiinal/2
#############################################################################
                        .data
ex1Prompt:              .asciiz "Enter exam 1 score: "
ex2Prompt:              .asciiz "Enter exam 2 score: "
finalPrompt:            .asciiz "Enter final score: "
avg:                    .asciiz "The avg score is: "
############################ data segment ###################################
                        .text
                        .globl main
main:
                        li $v0, 4        # prompt for exam 1
                        la $a0, ex1Prompt
                        syscall
                        li $v0, 5        # read in exam 1
                        syscall

                        sll $t0, $v0, 7  # t0 = exam 1 * 128 (sll 7 bits)
                        li $t1, 637      # t3 has 637
                        divu $t0, $t1    # divide by 637
                        mflo $t0         # exam1 * 128 / 637

                        li $v0, 4        #prompt for exam 2
                        la $a0, ex2Prompt
                        syscall
                        li $v0, 5        # read in exam 2
                        syscall

                        move $t1, $v0    # t1 has exam 2
                        li $t2, 307      # store 307 in t2
                        mult $t1, $t2    # multiply by 307
                        mflo $t1         # exam 2 * 307
                        srl $t1, $t1, 10 # $t0 has exam2 * 307/1024 (sra 10 bits)


                        li $v0, 4        # prompt final score
                        la $a0, finalPrompt
                        syscall
                        li $v0, 5        # read int final score
                        syscall

                        move $t3, $v0    # t3 has final exam score
                        srl $t3, $t3, 1  # final/2

                        add $v0, $t3, $t0# sum all three values
                        add $t1, $v0, $t1

                        li $v0, 4
                        la $a0, avg      # output the avg weight
                        syscall
                        move $a0, $t1
                        li $v0, 1
                        syscall          # display avg

                        li $v0, 10
                        syscall          # exit gracefully
```