

Clayton, CS 2318-004, Assignment 2 Part 1D

This program takes input from the user and uses their test grades to calculate an average

#this program asks the user for their test grades
and calculates the average

```

        .data

prompt:    .asciiz "Enter your exam scores, \n"
e1Input:   .asciiz "Exam 1: "
e2Input:   .asciiz "Exam 2: "
finInput:  .asciiz "Final Exam: "

output:    .asciiz "Average: "

        .text
        .globl main

main:

        li $v0, 4
        la $a0, prompt
        syscall #prompt

        li $v0, 11
        li $a0, '\n'
        syscall

#Get input

        li $v0, 4
        la $a0, e1Input
        syscall #prompt 1

        li $v0, 5
        syscall #exam 1
        move $t0, $v0

        li $v0, 4
        la $a0, e2Input
        syscall #prompt 2

        li $v0, 5
        syscall #exam 1
        move $t1, $v0
```

```
li $v0, 4
la $a0, finInput
syscall #prompt 3
```

```
li $v0, 5
syscall #exam 1
move $t2, $v0
```

#Calculate

```
sll $t4, $t0, 9 #score1 = 512 * score1
li $t5, 2558
div $t4, $t5 #score1 = score1 / 2558
mflo $t0
```

```
li $t5, 614
mult $t1, $t5 #score2 = 614 * score2
mflo $t5
srl $t1, $t5, 11 #score2 = score2 / 2048
```

```
srl $t2, $t2, 1 # score 3 - score3 / 2
```

#add them all together

```
add $t0, $t0, $t1
add $t0, $t0, $t2
```

#output

```
li $v0, 11
li $a0, '\n'
syscall
```

```
li $v0, 4
la $a0 output
syscall
```

```
li $v0, 1
move $a0, $t0
syscall
```

```
li $v0, 11
li $a0, '\n'
syscall
```

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

Output:

Enter your exam scores,

Exam 1: 100

Exam 2: 50

Final Exam: 75

Average: 71