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| Drew Daniel COSC 300-001  Lab 4/6/17 |

Program:

#Author: Drew Daniel

#COSC 300

# Start with value equal to 12.2

# decrement by 1 each iteration

# Iterate until less than 1.0

.data

start: .asciiz "\nEnter starting number: "

decr: .asciiz "\nEnter number to decrememnt by: "

final: .asciiz "\nEnter final number: "

count: .asciiz "\nNumber of iterations: "

space: .asciiz "\n"

bye: .asciiz "\nHave a nice day"

.text

.globl main

main:

# $t1 - contains counter

#user value to set start number

la $a0, start

li $v0, 4

syscall

li $v0, 6

syscall

mov.s $f13, $f0

#user input for decrememntation number

la $a0, decr

li $v0, 4

syscall

li $v0, 6

syscall

mov.s $f1, $f0

#user input final number

la $a0, final

li $v0, 4

syscall

li $v0, 6

syscall

mov.s $f3, $f0

la $a0, space

li $t1, 0

Loop:

addi $t1, $t1, 1

sub.s $f13, $f13, $f1

c.le.s $f3, $f13

bc1t Loop

la $a0, count

li $v0, 4

syscall

move $a0, $t1

li $v0, 1

syscall

la $a0, bye

li $v0, 4

syscall

li $v0, 10

syscall

Console:

