.data

startText: .asciiz " THIS IS CONVERT FROM FAHRENHEIT TO CELCIUS \n\n"

promptText: .asciiz "Enter degrees in Fahrenheit: \n"

fahrenText: .asciiz "Stored in RAM Fahrenheit: "

finalText: .asciiz "\nThe temperature in Celsius is "

Minus: .float 32

Multip: .float 5

Divide: .float 9

Fahrenheit: .float 0

Celsius: .float 0

.text

li $v0, 4

la $a0, startText

syscall

li $v0, 4

la $a0, promptText

syscall

#input Fahrenheit from keyboard

li $v0, 6

syscall

swc1 $f0, Fahrenheit

l.s $f1, Minus

l.s $f2, Multip

l.s $f3, Divide

#formula for convertion

sub.s $f0, $f0, $f1

mul.s $f0, $f0, $f2

div.s $f0, $f0, $f3

s.s $f0, Celsius

#display input and results (P.S float output register assigned to $f12 in the options of MARS 4.5 in advance. In other case, program shows 0.0 for both values)

li $v0, 4

la $a0, fahrenText

syscall

li $v0, 2

l.s $f12, Fahrenheit

syscall

li $v0, 4

la $a0, finalText

syscall

li $v0, 2

l.s $f12, Celsius

syscall

li $v0, 10

syscall