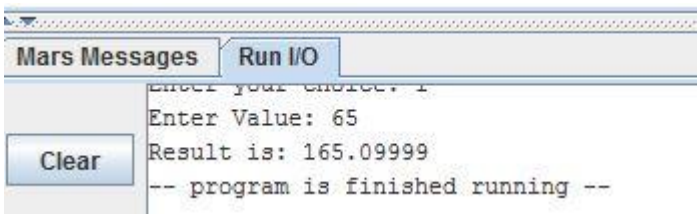
1.

```
.data
inputc:  .asciiz    "Press 1 to convert inches to cm"
ch:      .asciiz    "\nEnter your choice: "
in:      .asciiz    "Enter Value: "
result:  .asciiz    "Result is: "
c:       .float 2.54
m:       .float 0

.text
.globl main
main:
        la $a0,   inputc
        li $v0, 4
        syscall


        la $a0,   ch
        li $v0, 4
        syscall

        li $v0,5
        syscall

        move $t0,$v0

        beq $t0,1,cm
```

cm:

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

li $v0,6
syscall

mov.s $f3,$f0
l.s $f4,c
mul.s $f5,$f3,$f4
l.s $f6,m
add.s $f7,$f5,$f6

la $a0,   result
li $v0, 4
syscall

mov.s $f12,$f7
li $v0,2
syscall

li $v0,10
syscall
```

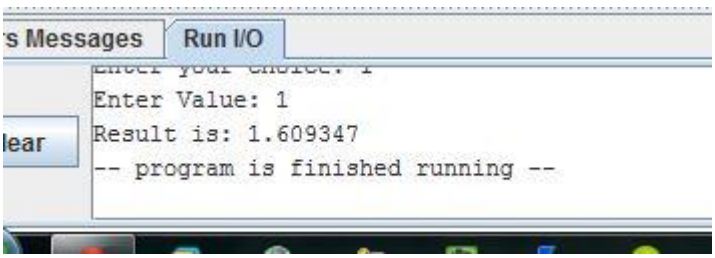


2.

```
.data
inputc:  .asciiz    "Press 1 to convert miles to kilometers"
ch:      .asciiz    "\nEnter your choice: "
in:      .asciiz    "Enter Value: "
result:  .asciiz    "Result is: "
c:       .float 0.62137
m:       .float 0

.text
.globl main
main:
        la $a0,   inputc
        li $v0, 4
        syscall


        la $a0,   ch
        li $v0, 4
        syscall

        li $v0,5
        syscall

        move $t0,$v0

        beq $t0,1,cm
```

cm:

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

li $v0,6
syscall

mov.s $f3,$f0
l.s $f4,c
div.s $f5,$f3,$f4
l.s $f6,m
add.s $f7,$f5,$f6

la $a0,   result
li $v0, 4
syscall

mov.s $f12,$f7
li $v0,2
syscall

li $v0,10
syscall
```



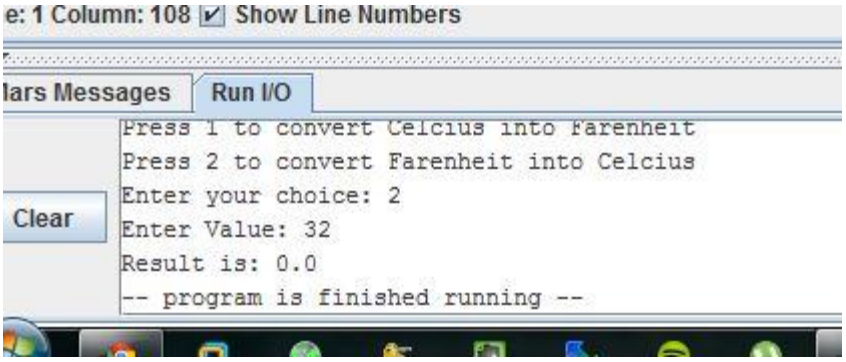
3.

#http://sourcecodemania.com/converting-celsius-to-fahrenheit-and-fahrenheit-to-celsius-using-mips-assembly/

```
.data
inputc:  .asciiz   "Press 1 to convert Celcius into Farenheit"
inputf:  .asciiz   "\nPress 2 to convert Farenheit into Celcius"
ch:      .asciiz   "\nEnter your choice: "
in:      .asciiz   "Enter Value: "
result:  .asciiz   "Result is: "
f:       .float 0.555555
c:       .float 1.8
m:       .float 32.0

.text
.globl main
main:
        la $a0,  inputc
        li $v0, 4
        syscall

        la $a0,  inputf
        li $v0, 4
        syscall

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

```
        li $v0,5
        syscall

        move $t0,$v0

        beq $t0,1,Celcius
        beq $t0,2,Farenheit

Celcius:
        la $a0,  in
        li $v0, 4
        syscall

        li $v0,6
        syscall

        mov.s $f3,$f0
        l.s $f4,c
        mul.s $f5,$f3,$f4
        l.s $f6,m
        add.s $f7,$f5,$f6

        la $a0,  result
        li $v0, 4
        syscall

        mov.s $f12,$f7
        li $v0,2
        syscall
```

```
        li $v0,10
        syscall

Farenheit:
        la $a0,   in
        li $v0, 4
        syscall

        li $v0,6
        syscall

        mov.s $f3,$f0
        l.s $f4,m
        sub.s $f5,$f3,$f4
        l.s $f6,f
        mul.s $f7,$f5,$f6

        la $a0,   result
        li $v0, 4
        syscall

        mov.s $f12,$f7
        li $v0,2
        syscall

        li $v0,10
        syscall
```


e: 1 Column: 108 Show Line Numbers
lars Messages
Run I/O
Clear
Press 1 to convert Celcius into Farenheit
Press 2 to convert Farenheit into Celcius
Enter your choice: 2
Enter Value: 32
Result is: 0.0
-- program is finished running --