

### Objective

Write a MIPS Assembly program to accept two numbers from the user and print the smaller number.

### Assembly Source Codes

```
#demo program to print largest of 2 numbers
.data
str1: .asciiz "Enter number 1:\n"
str2: .asciiz "Enter number 2:\n"
str3: .asciiz "\nThe smallest number is:\n"
.text

la $a0,str1 #print string
li $v0,4
syscall #start scanning
#accept number 1
li $v0,5
syscall #end scanning
move $s0,$v0 #save #1 into register s0

la $a0,str2
li $v0,4
syscall
#accept number 2
li $v0,5
syscall
move $s1,$v0 #save #2 into register s1

#print the result
la $a0,str3
li $v0,4
syscall

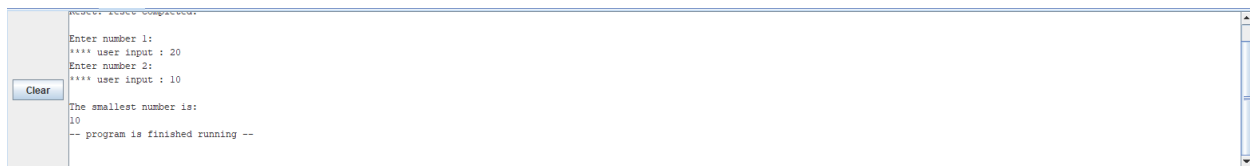
#compare the two numbers
bge $s1,$s0,label #bge = branch greater than or equal
#false condition
move $a0,$s1 #print #2 since it is larger
li $v0,1
syscall

j exit #end the loop bge
```

```
label:
move $a0,$s0 #print #1 since it is larger
li $v0,1
syscall
```

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

### **Screen shot of the results**



### **Conclusion and References**

After switching the variables for the loop, the program was now able to output the smallest variable.