Bahria University,

Karachi Campus



LAB EXPERIMENT NO.

05

LIST OF TASKS

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| TASK NO | OBJECTIVE |
| 01 | Write an assembly program that Read and Print Hello world. |
| 02 | Write an assembly program that add two numbers. |
| 03 | Write an assembly program that subtract two numbers. |
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Submitted On:

22/10/2019

**Q:-** Write an assembly program that Read and Print Hello world.

Input:-

.data

InputHint: .asciiz "Enter Your Name:\n" #Input Hint

HelloWorld: .asciiz "Hello World" # hello world

readString: .space 20 # reserve space for takin input

.text

la $a0,InputHint # load arguemnt Input hint

li $v0,4 #print Input Hint

syscall

li $v0,8 # Take input Name

la $a0, readString # reserve space in arguemnt

li $a1,20 # take input and save it in argument 1

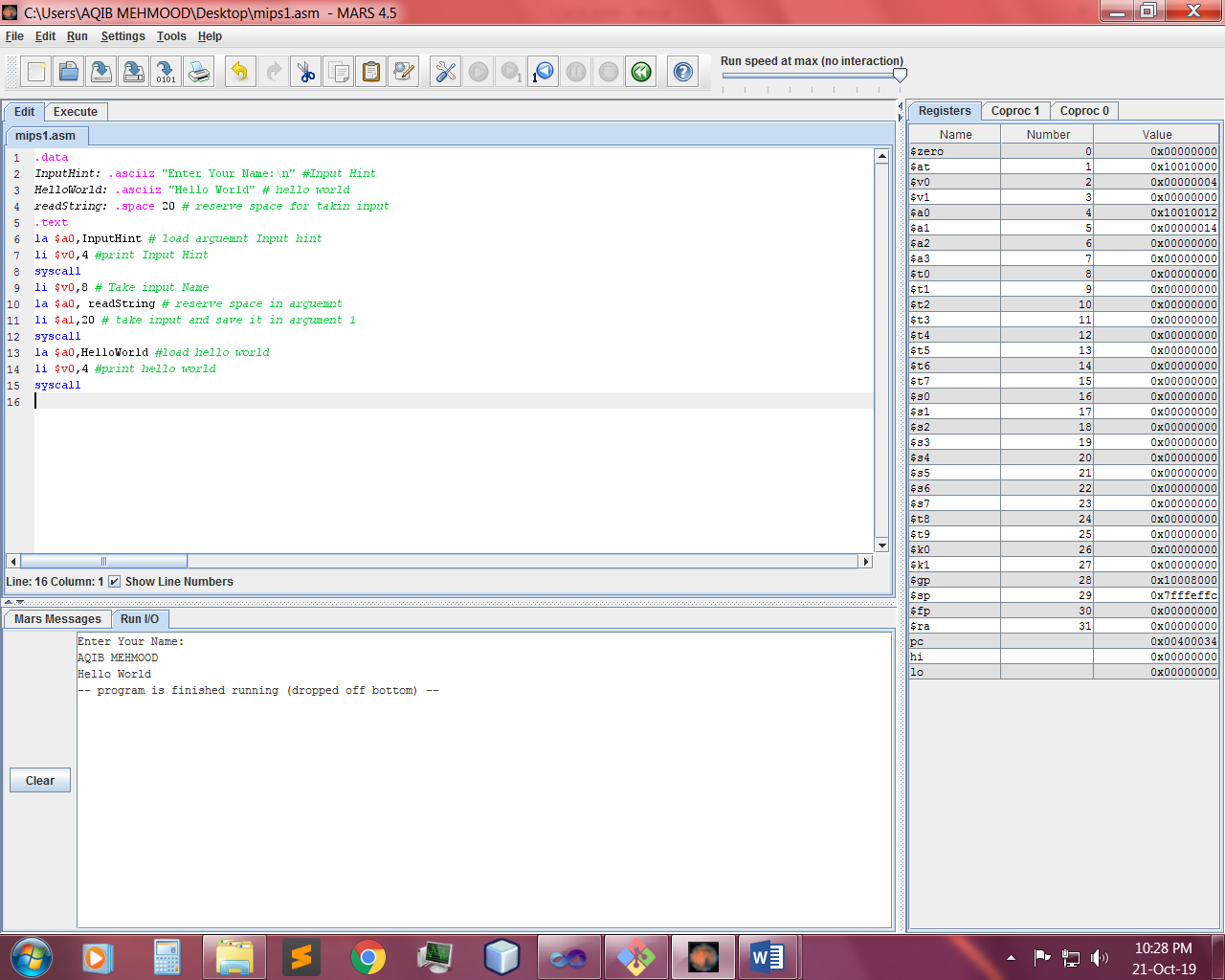
syscall

la $a0,HelloWorld #load hello world

li $v0,4 #print hello world

syscall

Output:-



**Q:-** Write an assembly program that add two numbers.

Input:-

.data

Num1: .word 05 #hard coded value 1

Num2: .word 07 # Hard coded value 2

OutPutHint: .asciiz "Sum is :"

.text

lw $t0,Num1 # load value 1 in temporary register

lw $t1,Num2 # load value 2 in temporary register

add $t2,$t1,$t0 # add values and store in another temp register

la $a0,OutPutHint # load OutPut Hint

li $v0,4 #print put put hint

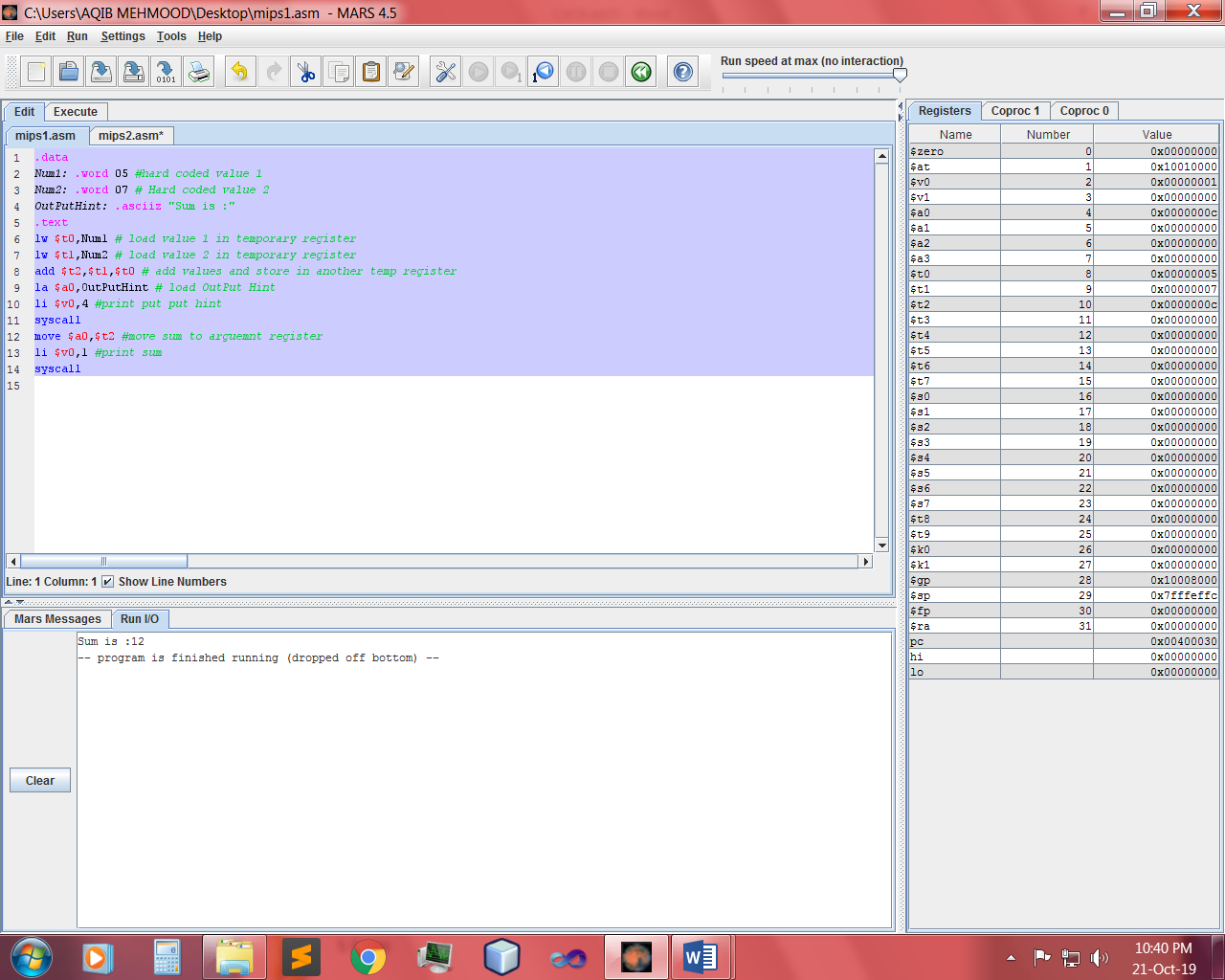
syscall

move $a0,$t2 #move sum to arguemnt register

li $v0,1 #print sum

syscall

Output:-



**Q:-** Write an assembly program that subtract two numbers.

Input:-

.data

Num1: .word 40 #hard coded value 1

Num2: .word 20 # Hard coded value 2

OutPutHint: .asciiz "Subtract is :"

.text

lw $t0,Num1 # load value 1 in temporary register

lw $t1,Num2 # load value 2 in temporary register

sub $t2,$t0,$t1 # subtract values and store in another temp register

la $a0,OutPutHint # load OutPut Hint

li $v0,4 #print put put hint

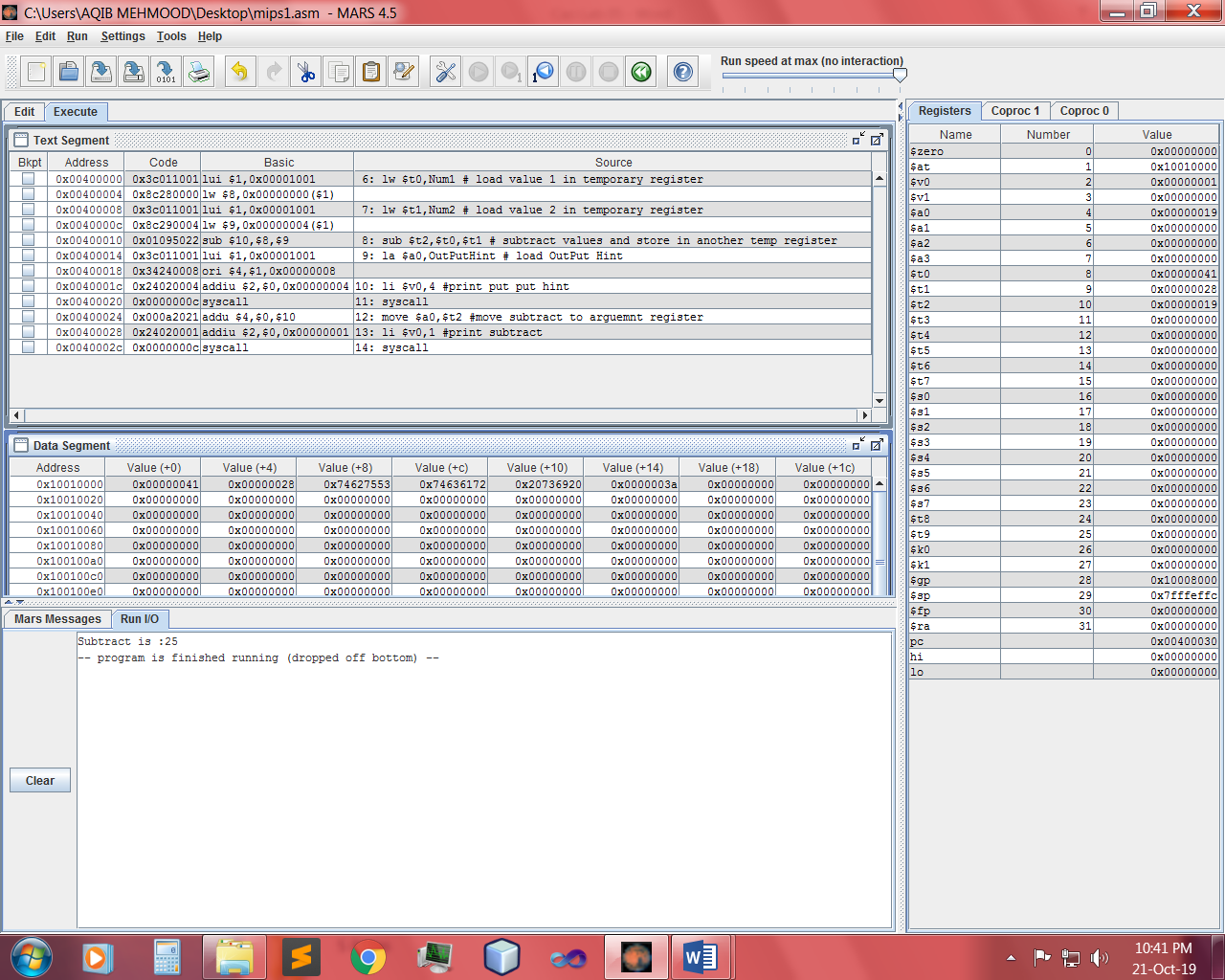
syscall

move $a0,$t2 #move subtract to arguemnt register

li $v0,1 #print subtract

syscall

Output:-



~~~~~~\*\*/**THE END**/\*\*~~~~~~