Bahria University,

Karachi Campus



COURSE: CEL-221 Computer Architecture And Organization

TERM: FALL 2020, CLASS: BSE- 3 (A)

Submitted By:

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(ADIL WAHEED) (65190)

Submitted To:

Engr. Muhammed Rehan Baig

Signed Remarks: Score:

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LAB EXPERIMENT NO.

\_\_\_05\_\_\_\_

LIST OF TASKS

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| --- | --- |
| TASK NO | OBJECTIVE |
| 1 | Write an assembly program that Read and Print Hello world. |
| 2 | Write an assembly program that add two number within the range of 10. |
| 3 | Write an assembly program that subtract two number within the range of 10. |
|  |  |
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Submitted On:

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(Date: 30/10/20)

**1.Write an assembly program that Read and Print Hello world.**

**Solution:**

.data

hello:.asciiz "Hello World"

read:.space 20

name:.asciiz "enter any string \n"

.text

la $a0,name

li $v0,4

syscall

li $v0,8

la $a0,read

li $a1,20

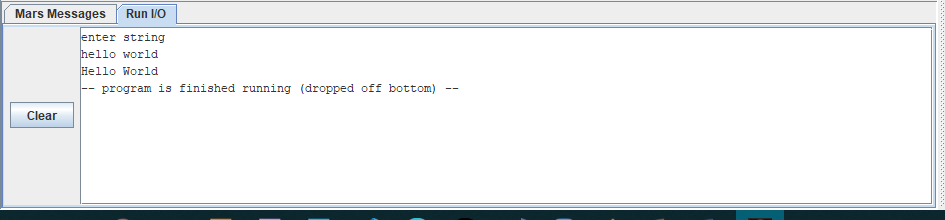
syscall

la $a0,hello

li $v0,4

syscall

**Output:**

****

**2.Write an assembly program that add two number within the range of 10.**

**Solution:**

.data

val1: .byte 5

val2: .byte 6

adding:.asciiz "add two number is="

.text

lb $t0, val1

lb $t1, val2

add $t2,$t0,$t1

la $a0,adding

li $v0,4

syscall

li $v0,1

add $a0,$zero,$t2

syscall

**Output:**

****

**3.Write an assembly program that subtract two number within the range of 10.**

**Solution:**

.data

val1: .byte 7

val2: .byte 6

Subtracting:.asciiz "Subtract of two number is="

.text

lb $t0, val1

lb $t1, val2

sub $t2,$t1,$t0

la $a0,Subtracting

li $v0,4

syscall

li $v0,1

sub $a0,$zero,$t2

syscall

**Output:**

