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.

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LIST OF TASKS

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| --- | --- |
| TASK NO | OBJECTIVE |
| 1 | **Write a MIPS assembly language program that takes an integer input and multiply that integer with 3 and display the message that is the result is even or odd.** |
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Submitted On:

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(Date: 14/11/20)

**Tasks** **Write a MIPS assembly language program that takes an integer input and multiply that integer with 3 and display the message that is the result is even or odd.**

**SOLUTION:**

#Write a MIPS assembly language program that takes an integer input

#and multiply that integer with 3 and display the message that is the

#result is even or odd

.data

prompt: .asciiz "result of multiplication is="

msg:.asciiz"Enter A number="

even1:.asciiz"Number is Even\n"

odd1:.asciiz"Number is Odd\n"

space:.asciiz" \n"

.text

.globl main

main:

li $t1, 3

li $t5,2

li $v0,4

la $a0,msg

syscall

li $v0,5

syscall

move $t0,$v0

mul $t4, $t0,$t1

la $a0, prompt

li $v0, 4

syscall

move $a0, $t4

li $v0,1

syscall

la $a0, space

li $v0, 4

syscall

even\_or\_odd:

div $t4,$t5

mfhi $t0 # Save remainder

beq $t0, $zero, even

j odd

even:

la $a0, even1

li $v0, 4

syscall

j exit

odd:

la $a0, odd1

li $v0, 4

syscall

j exit

exit:

li $v0,10

syscall

**OUTPUT:**

