Bahria University,

Karachi Campus



LAB EXPERIMENT NO.

\_\_\_10\_\_\_\_

LIST OF TASKS

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| TASK NO | OBJECTIVE |
| QUESTION NO.1 | **Write a program in MIPS assembly language that takes input from user and print whether the input is greater-than equal to or less than 10 and also shift input left and right 4 bits.** |
| QUESTION NO.2 |  |
| QUESTION NO.3 |  |
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Submitted On:

\_\_\_12/ 12/2019\_\_\_

(Date: DD/MM/YY)

**QUESTION-1: Write a program in MIPS assembly language that takes input from user and print whether the input is greater-than equal to or less than 10 and also shift input left and right 4 bits.**

**Code:**

.data

in: .asciiz "Enter a number\n"

out1: .asciiz "Number is greater than 10\n"

out2: .asciiz "Number is smaller than or equal to 10\n"

o: .asciiz "\nNumber after right shift\n"

a: .asciiz "Number after left shift\n"

.text

la $a0,in

li $v0,4

syscall

li $v0,5

syscall

move $t0,$v0

li $t1,10

sub $t2,$t0,$t1

blez $t2,small

la $a0,out1

li $v0,4

syscall

b shifts

small:

la $a0,out2

li $v0,4

syscall

shifts:

sll $s0,$t0,4

la $a0,a

li $v0,4

syscall

move $a0,$s0

li $v0,1

syscall

srl $s1,$t0,4

la $a0,o

li $v0,4

syscall

move $a0,$s1

li $v0,1

syscall

li $v0,10

syscall

**Output:**

