**#Laborator 2: 1.1**

.data

.text

main:

div $t4,$t1,$t2

rem $t5,$t1,$t2

mulo $t3,$t4,$t5

li $v0,10

syscall

**#Laboratorul 2: 1.2**

.data

.text

main:

sub $t4,$t1,$t2

abs $t3,$t4

li $v0,10

syscall

**#Laboratorul 2: 2.1**

.data

.text

main:

or $t6,$1,$t2

not $t7,$t3

and $t8,$t6,$t7

xor $t5,$t8,$t4

li $v0,10

syscall

**#Laboratorul 2: 2.2**

.data

.text

main:

ori $t1,$0,0x25

li $v0,10

syscall

**#Laboratorul 2: 3.1**

.data

.text

main:

li $t1,4

ori $t0,$0,0x1234

sll $t2,$t0,$t1

li $v0,10

syscall

**#Laboratorul 2: 3.2**

.data

.text

main:

ori $t0,$0,0x12345678

li $t1,3

sll $t2,$t0,$t1

li $t1,8

ror $t2,$t2,$t1

li $v0,10

syscall

10010001101000101011001111000000

#11000000100100011010001010110011

**#Laboratorul 3: 1**

.data

x: .word 1

y: .word 2

.text

main:

lw $t0,x

lw $t1,y

move $t3,$t0

move $t0,$t1

move $t1,$t3

sw $t0,x

sw $t1,y

li $v0,10

syscall

**#Laboratorul 3: 2**

.data

var1: .word 16

var2: .word 31

var3: .word 0

.text

main:

lw $t0,var1

lw $t1,var2

li $t2,8

mulo $t3,$t2,$t0

li $t4,16

div $t5,$t1,$t4

sub $t6,$t3,$t5

sw $t6,var3

li $v0,10

syscall

**#Laboratorul 3: 3**

.data

x: .word 10

y: .word 11

z: .word 12

.text

main:

#a:

lw $t3,x+4

#b:

la $t1,x+8

li $t2,14

sh $t2,($t1)

li $v0,10

syscall

**#Laboratorul 3: 4**

.data

x: .word 5

.text

main:

lw $t0,x

la $t1,x+4

move $t7,$t0

mulo $t2,$t0,$t7

li $t3,2

mulo $t4,$t2,$t3

li $t8,4

mulo $t9,$t8,$t0

sub $t5,$t4,$t9

li $t3,12

add $t6,$t5,$t3

sw $t6,($t1)

li $v0,10

syscall

**#Laborator 4: 1**

.data

.text

main:

li $t4,7

li $t0,1

li $t1,1

li $t2,7

li $t3,3

seq $t5,$t1,$t4

seq $t6,$t2,$t4

seq $t7,$t3,$t4

bgtz $t5,sfarsit

bgtz $t6,sfarsit

bgtz $t7,sfarsit

li $t0,0

sfarsit:

li $v0,10

syscall

**#Laboratorul 4: 2**

.data

.text

main:

li $t1,2

li $t2,1

bgtz $t1,sfarsit

li $v0,10

syscall

sfarsit:

li $t2,0

li $v0,10

syscall

**#Laboratorul 4: 3**

.data

string1: .asciiz "sir de caractere \n"

x: .byte 0

elem: .space 30

.text

main:

la $t2,string1

li $t0,0

li $t1,0

loop:

beq $t0,$t2 sfarsit

addi $t2,1

addi $t1,1

li $v0,1

lb $a0,($t1)

syscall

b loop

sfarsit:

li $v0,1

lb $a0,($t1)

syscall

li $v0,10

syscall

**#Laboratorul 4: 4**

.data

string1: .asciiz "Dati numarul de elemente \n"

string2: .asciiz "Dati elementele \n"

n: .word 0

s: .word 0

elem: .space 64

.text

main:

li $v0,4

la $a0,string1

syscall

li $v0,5

syscall

sw $v0,n

lw $t0,n

li $t1,0

li $t5,0

la $t2,elem

li $v0,4

la $a0,string2

syscall

loop:

beq $t0,$t1,sfarsit

addi $t1,1

li $v0,5

syscall

sw $v0,($t2)

bltz $v0 salt\_eticheta

add $t5,$t5,$v0

salt\_eticheta:

addi $t2,4

b loop

sfarsit:

sw $t5,s

li $v0,1

la $a0,s

syscall

mfc0 $t8,$9

li $v0,10

syscall