syscall

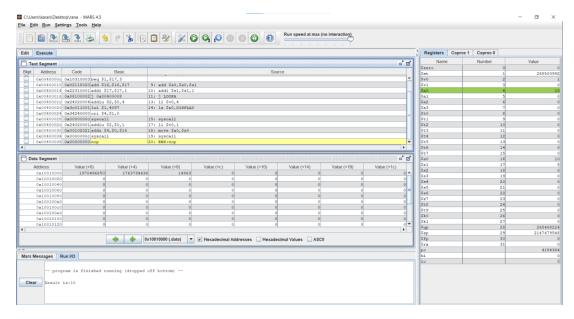
END:nop

# CSIT230\_SP21

## M7-HW

1) .data DISPLAY: .asciiz"Result is:" .text MAIN: addi \$s1,\$zero,1 addi \$s0,\$zero,0 LOOPA: beq \$s1,5,EXITA add \$s0,\$s0,\$s1 addi \$s1,\$s1,1 j LOOPA EXITA: li \$v0,4 la \$a0,DISPLAY syscall li \$v0,1 move \$a0,\$s0

1



(b)

.data

DISPLAY: .asciiz"Result is "

.text

MAIN:

addi \$s1, \$zero,1

addi \$s0, \$zero,0

LOOPA:

beq \$s1,4,EXITA

addi \$s2, \$zero,1

LOOPB:

beq \$s2,4,EXITB

addi \$s0,\$s0,1

add \$s0,\$s0,\$s1

add \$0,\$s0,\$s2

addi \$s2,\$s2,1

j LOOPB

EXITB:

addi \$s1,\$s1,1

j LOOPA

EXITA:

li \$v0,4

la \$a0,DISPLAY

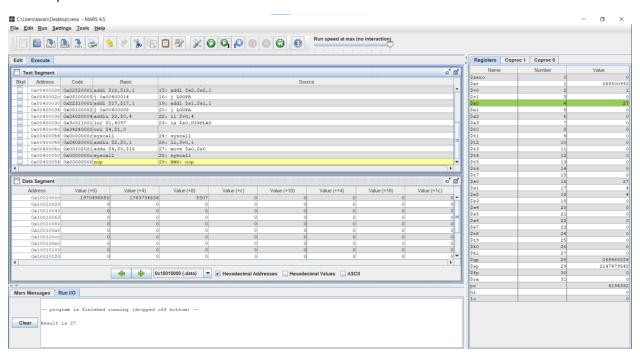
syscall

li,\$v0,1

move \$a0,\$s0

syscall

END: nop



(c)

.data

DISPLAY: .asciiz"Result is "

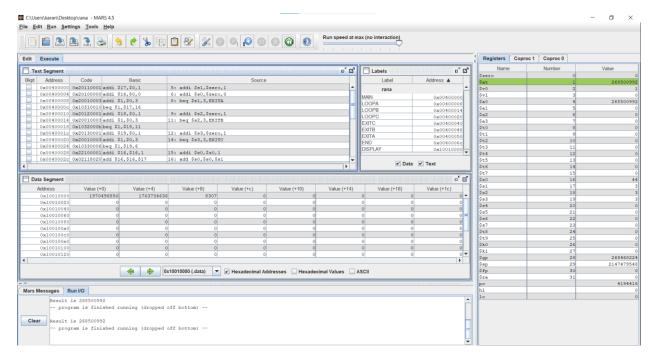
.text

MAIN:

addi \$s1,\$zero,1

Rana, Karan
addi \$s0,\$zero,0
LOOPA:
beq \$s1,3,EXITA
addi \$s2,\$zero,1
LOOPB:
beq \$s2,3,EXITB
addi \$s3,\$zero,1
LOOPC:
beq \$s3,3,EXITC
addi \$s0,\$s0,1
add \$s0,\$s0,\$s1
add \$s0,\$s0,\$s2
add \$s0,\$s0,\$s3
addi \$s3,\$s3,1
j LOOPC
EXITC: addi \$s2,\$s2,1
j LOOPB
EXITB: addi \$s1,\$s1,1
j LOOPA
EXITA:
li \$v0,4
la \$a0,DISPLAY
syscall
li \$v0,1
move \$a0,\$a0
syscall

END:nop



(d)

.data

DISPLAY: .asciiz"Result is: "

.text

MAIN: addi \$s1,\$zero,1

addi \$s0, \$zero,0

LOOPA: beq \$s1,3,EXITA

addi \$s2,\$zero,1

LOOPB: beq \$s2,3,EXITB

addi \$s3,\$zero,1

LOOPC: beq \$s3,3,EXITC

addi \$s4,\$zero,1

LOOPD: beq \$s4,3,EXITD

addi \$s0,\$s0,1

add \$s0,\$s0,\$s1

add \$s0,\$s0,\$s2

add \$s0,\$s0,\$s3

Rana, Karan

add \$s0,\$s0,\$s4

addi \$s4,\$s4,1

j LOOPD

EXITD: addi \$s3,\$s3,1

j LOOPC

EXITC: addi \$s2,\$s2,1

j LOOPB

EXITB: addi \$s1,\$s1,1

j LOOPA

EXITA:

li \$v0,4

la \$a0,DISPLAY

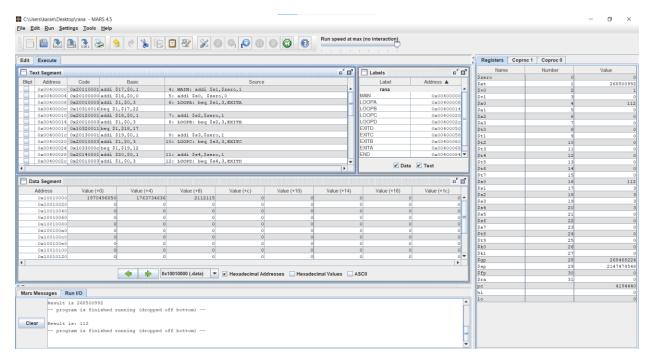
syscall

li \$v0,1

move \$a0,\$s0

syscall

END:nop



#### PART 2

.data

msg: .asciiz" Answer of this expression is: "

.text

main:

addi \$t0,\$zero,0

addi \$t1,\$zero,3

addi \$t2,\$zero,3

addi \$t3,\$zero,0

addi \$s0,\$zero,0

while:

beq \$s0,2,exit

add \$t3,\$t3,\$t1

add \$t3,\$t3,\$t2

add \$t1,\$t1,\$t1

addi \$s0,\$s0,1 j while exit: addi \$s0,\$zero,0 addi \$t1,\$zero,9 while1: beq \$s0,2,exit1 add \$t3,\$t3,\$t1 add \$t3,\$t3,\$t2 mul \$t2,\$t2,\$t2 addi \$s0,\$s0,1 j while1 exit1: li \$v0,4 la \$a0,msg syscall li \$v0,1 addi \$a0,\$t3,0 syscall

