Lab Task-1

CCCN 221 – Computer Architecture

Lab Instructor: Abdullah Abbasi   **Submission Time: As per BB**

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Instructions:

1. **This is a closed book and closed notes.**
2. **Copying with colleagues will be marked 0.**
3. **For answer used this text color**

Marks:

Exercises	1	1	Total
Allocated	1	1	2
Obtained			
CLO, PLO, SO	3.1, V3, S05	3.1, V3, S05	

Note: Student must attach the screenshot of the Final output.

Assemble and run the code using MIPS/QtSPIM only.

1. **Identify and correct the errors in the following code and attach the Final output.   [1 Mark]**

A. Printing an Integer	**B. Printing a String**

.data

   age: .int 12 // age: .word 12

.text

   li $v0, 1

   lw $a0, age

   syscall

.data

   myMessage1: .asciiz "**Best of Luck**\n"

.text

   li $v0, 1   // li $v0, 4

   la $a0, myMessage1

   syscall

2. **Write a MIPS program to add two floating point numbers, print the result and attach the Final output.   [1 Mark]**
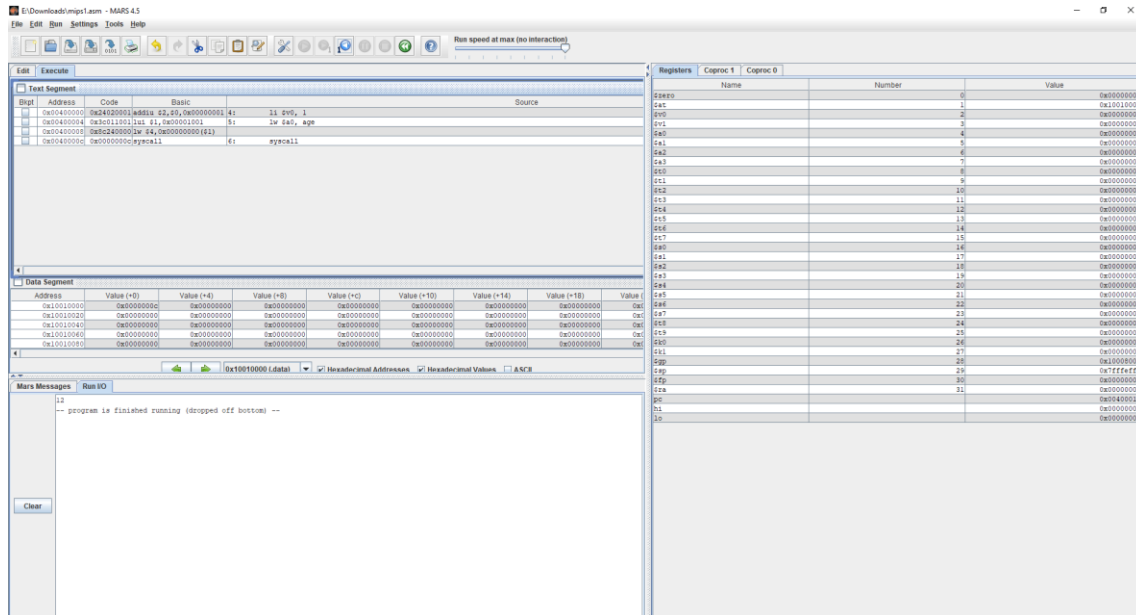
.data
Num1: double 3.102
Num2: double 2.0

.text
(add.d $f12, $f2, $f0)

A)

```
.data
    age: .word 12
.text
    li $v0, 1
    lw $a0, age
    syscall
```
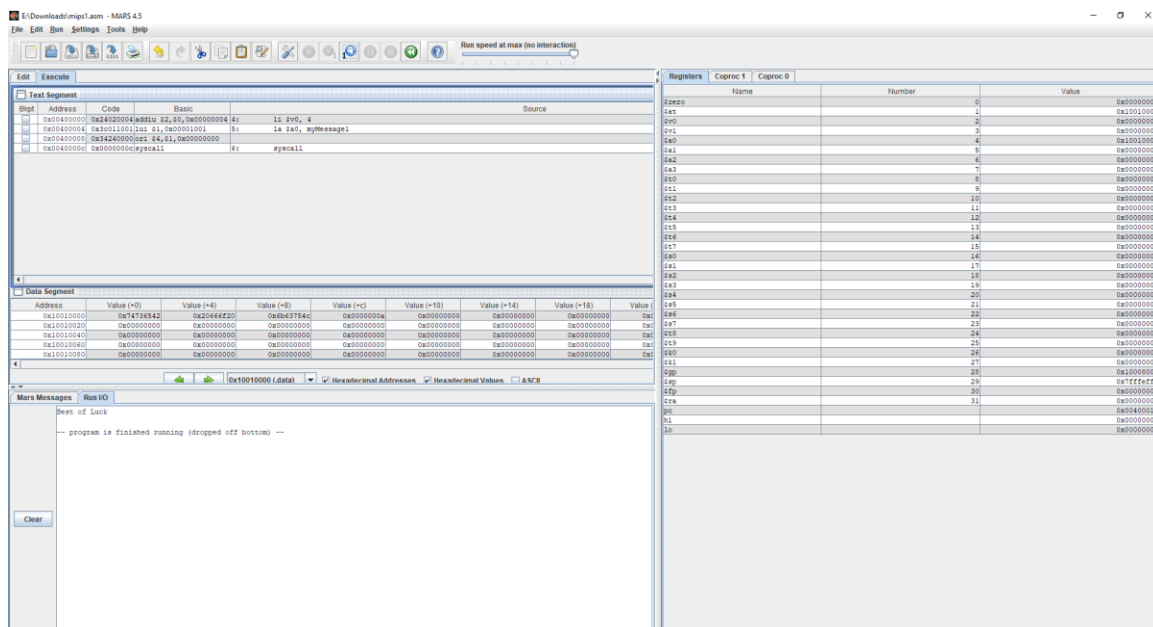

B)

```
.data
    myMessage1: .asciiz "Best of Luck\n"
.text
    li $v0, 4
    la $a0, myMessage1
    syscall
```

Question 2 Answer:

.data
Num1: .double 3.102
Num2: .double 2.0

.text
ldc1 $f2, Num1
ldc1 $f0, Num2
li $v0, 3
add.d $f12, $f2, $f0
syscall