## **Tests & Quizzes**

# Quiz 07

Return to Assessment List

### **Part 1 of 5 / 3.0 Points**

Question 1 of 5	3.0 Points

Consider the following ARM assembly program

```
AREA prog, CODE, READONLY
     ENTRY
          MOV
              RO, #250
          MOV R1, #1
          ADD R1, R1, R0, ASR#3
repeat
          TST
               R1,#1
          SUBNE RO, #61
          SUBEQ RO, #91
               R0,#0
          CMP
          BGT
              repeat
halt
          В
               halt
     END
```

What is the value of R0 and R1 after executing the above program (until reaching the "B halt" instruction)?

```
R0 = 0x \checkmark FFFFFE8, R1 = 0x \checkmark 00000043
```

How many times is the ADD instruction executed?  $\checkmark$  4

**Answer Key:** FFFFFE8 | -18, 43 | 00000043, 4

#### **Part 2 of 5 / 1.0 Points**

Question 2 of 5	1.0 Points
Q 4 6 5 6 1 5 1 5 1	110 1 011100

If the align code is 0x5 and the 0-to-255 value is 0xFA, then the literal value in hexadecimal without any leading zeros will be 0x  $\times$  5FA.

**Answer Key:** 3E800000

### **Part 3 of 5 / 2.0 Points**

**Answer Key:** MVNVC r4,r5,ASR #6

Question 3 of 5	2.0 Points
Click to see additional instructions If the literal value is $0x2000000A$ , then the value in decimal will be $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	e align code in decimal will be 🗶 2097152 and the 0-to-255
<b>Answer Key:</b> 2, 162	
Part 4 of 5 / 7.0 Points	
Question 4 of 5	7.0 Points
Encode the following ARM assembly instruated and control of the following ARM assembly instruated assembly instruction of the following ARM assembly instruction of the following assembly instruction of the following ARM assembly in the following ARM assembly in the following ARM a	uction to ARM machine language code.
Answer Key: E2A213FF	
Part 5 of 5 / 7.0 Points	
Question 5 of 5	7.0 Points
Decode the following ARM machine langua  ★ MVN r4, r5, ASR#6	age code to ARM assembly instruction. 0x71E04345

https://owl.uwo.ca/portal/site/c88e3fd5-f745-486d-8e2a-47491f190160/tool/0389165e-cbbf-4855-a67c-f7eb326ee499/jsf/index/mainIndex/fines/callenges/fines/fi