Unit 06_005 - Syntax

Video Length 12:45

- 1. What is the difference between .ascii and the .asciz directive?
- 2. How many bytes would the command .ascii "dog" allocate?
- 3. How many bytes would the command .asciz "dog" allocate?
- 4. The code below declares a string. Write the declaration of len that has the assembler calculate the length of word.

message: .ascii "Hello, World!"
len: .quad

5. Modify the code below to load the address of message into the rdi register.

movq letters, %rdi

6. Modify the code below to load the contents of rdi into the r8b register.

movb %rdi , %r8b

7. Consider the previous two questions. One of them was moving a quad. The second was only moving a byte. Explain why.

Unit 06_010 - Syscall

Video Length 11:30

8. What is syscall? Why do we need it?

- 9. Suppose you wanted to convert a program written for x86-64 to run on an ARM processor. Would syscall need to be adapted to run on ARM?
- 10. What three registers will we be using to communicate with syscall?

11. If syscall is considered a function call, how are parameters passed to the function?

If you have any lingering questions or problems, please write them here or see me.

