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Assignment #10

(7.3, 7.4, 7.9, 7.10)

CS-2810-002

7.3) What is the problem with using the string AND as a label?

You can’t use the string AND as a label because AND is already defined by the LC-3.

|  |  |
| --- | --- |
| Symbol | Address |
| SAVE3 | X301C |
| SAVE2 | X301D |
| TEST | X301F |
| FINISH | X3023 |
|  |  |
|  |  |

7.4)

7.9) What is the purpose of the .END pseudo-op? How does it differ from the HALT instruction? .END shows where the end of the total code is for the assembler. HALT shows the end of the code for the LC-3 Simulator.

7.10) The error occurs in the first line of the code fragment. ADD R3, R3, #30. You cannot have an integer value larger than #15 in an LC-3 register.