Lab 4

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1.

Graphical user interface, table

Description automatically generated

2.

Graphical user interface, table

Description automatically generated

3.

Graphical user interface, table

Description automatically generated

4.

Graphical user interface, table

Description automatically generated

the program starts off printing from the first location with the "!". we then dereference the contents of r0 storing into r2.

as long as the now contents of r2, are not divisible by 4 we keep incrementing r0 meaning every time we print we start from the next character

this program looped 4 times

5.

- lc3 translates each string into a binary version.

- it was designed in a way such that as long as there is a valid binary value

- even though it is not an instruction, we can simply ignore it or save it for later use

6.

Scr1

Graphical user interface, table

Description automatically generated

Binary version

Graphical user interface, table

Description automatically generated

8. scr1: shows contents of program 7 as expected

Graphical user interface, application, table

Description automatically generated

Scr2: middle part has some values that are not 0 (garbage)

Graphical user interface, table

Description automatically generated

Scr3

End of the 256 lines.

* For some reason my laptop has access violation at the end however I did not have that in the lab.

Graphical user interface, table

Description automatically generated