COMMANDS FOR DAY 2

Compilation commands:

**Make sure you’re in the same directory as your files**

riscv64-unknown-elf-gcc -Ofast -mabi=lp64 -march=rv64i -o 1to9\_custom.o 1to9\_custom.c load.S

Disassembling code:

riscv64-unknown-elf-objdump -d 1to9\_custom.o |less

New commands:

To clean window= ctrl + L

Spike editor

spike pk <obj file>

Debug

spike -d pk <obj file>

To run till

until pc 0 <address>

To find contents of reg:

reg 0 <reg name>

To download basic labs

git clone <address>

to go into a directory

cd <directory name>

To see files in a directory

ls -ltr

We are basically going into riscv cpu

So we open picorv32 through leafpad/vim/ less

To quit from vim

Press esc + :q

To write int value in vim

Press I + <number>

To quit less

press q

* picorv32 uut means picorv32 is unit under test

To run the file rvim.sh

We first change perm to read, write and execute i.e. 777

Hex file

Bit stream file

The bit stream file gets loaded in the file then it gets loaded to mem through test bench

Then picorv32 processes hex code and gives required output.