1. Booting Computer

To begin testing the functionality of your CPU, follow these steps:

- struction and data memory into the ROM and 1. Loa
- Iial low state by poking it.
- on and off.
- input to the keyboard, do so at this point.
- 5. Use either the manual "Tick Once" function (Ctrl+T) or the automatic "TickerEnabled" function (Ctrl+K) to start the program execution.

2. Automated seitingment Project Exam Help

For the self-test tool to work, your circuit must meet the following requirements:

- Name your circuit file "cpu.circ" and store it in the same directory as the tool and data.
- Use a composition lied Hepisterfile (Salid) zation matters (asyp) r register file.
 Use an input named "reset" (capitalization matters) as your reset signal.
- 4. Place a Probe on each register in your register file and name them "r0", "r1", "r2", etc.
- 5. Set the default state of all D flip-flops to 0 to avoid issues with tests that toggle the reset figra
- 6. You can use robes for your own purposes, but leave their label blank. The tester ignores unlabeled probes, but labeled probes other than "r0", "r1", etc. will affect the results.
- 7. Confidure the JTY with 13 rows, 80 columns, and rising edge.
- 8. Use a RDMcomponent or local struction on entry, as the tool will overwrite every ROM component in your circuit with instruction data.
- 9. Make sure you have Python and Java 1.6/1.7/1.8 installed to run the tester. The tool has been tested on Course Linux, but it should work on other environments as long as the required Java Runtime Environment is available.
- 10. Do not use the "Project | Add Library" feature, as it will break your submission online. Instead, use the "File | Merge" feature to bring in circuits from other files. You may need to rename circuits to avoid conflicts.

To view a usage message, run the command "./hwtest.py". The command will generate files named "actual.txt" and "diff.txt" to show your output and the differences between your output and the expected output. The assembly language source code for the CPU 250/16 tests is located in the "programs/" directory. Refer to the assembler and simulator section in this document for more information.

If you want to manually run a specific command line test, you can use the Logisim command-line version directly. Check the "settings.json" file for the test configuration, especially the arguments. For example, the "simple" test has the following arguments:

"args":["-c", "10", 程序代写代做 CS编程辅导 "-ic", "0,reset=1:1,reset=0,

"-lo", "tests/simple.imem.lgsim",

"-la", "tests/sim=]

To execute this test ma one command):

> java -jar logisim tests/simple.dr

ents on the command line as follows (note that this is all

: 10 -ic 1,reset=1:2,reset=0 -lo tests/simple.imem.lgsim -la

3. Assembler & Simulator

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There are two pseudo-instructions aliable for use in your progress Exam Help

- 1. la \$rd, label # load address
- 2. halt

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The la pseudo-instruction is converted into multiple actual machine instructions that have the effect of loading a 16-bit address into the specified register (specifically, a series of addi and sll instructions). Specifically, the transformation is that:

la \$rd, ADDR Q: 749389476

Will become the following, where the bracket notation indicates bits within ADDR:

addi \$rd, \$\text{shtps://lutorcs.com}\$
\$11 \\$rd, \\$rd, 5
\$addi \\$rd, \\$rd, \ADDR[10..6]
\$11 \\$rd, \\$rd, 5
\$addi \\$rd, \\$rd, 5
\$addi \\$rd, \\$rd, \ADDR[5..1]
\$11 \\$rd, \\$rd, 1
\$addi \\$rd, \\$rd, \ADDR[0]

The halt instruction is actually a branch that simply branches back to itself, creating an infinite loop (though when run with the simulator, this special branch is detected and causes the simulator to terminate). The halt instruction is actually assembled into:

beq \$r0, \$r0, -1

For information on using these tools, see the readme.txt included with it!

4. Final Test程序代写代做 CS编程辅导

After passing all the tests, you can run the demo programs that come included:

• demo-fib-pring the state of recursive and prints the state of the tester only record to the state of the st

demo-prime makes the make a challenging to the struction of the structure of the structure

To run these programs, you need to use the included assembler tool to produce imem and dmem files as they do not come pre-assembled. Running these programs at a high clock speed will cause of the console.

Assignment Project Exam Help

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