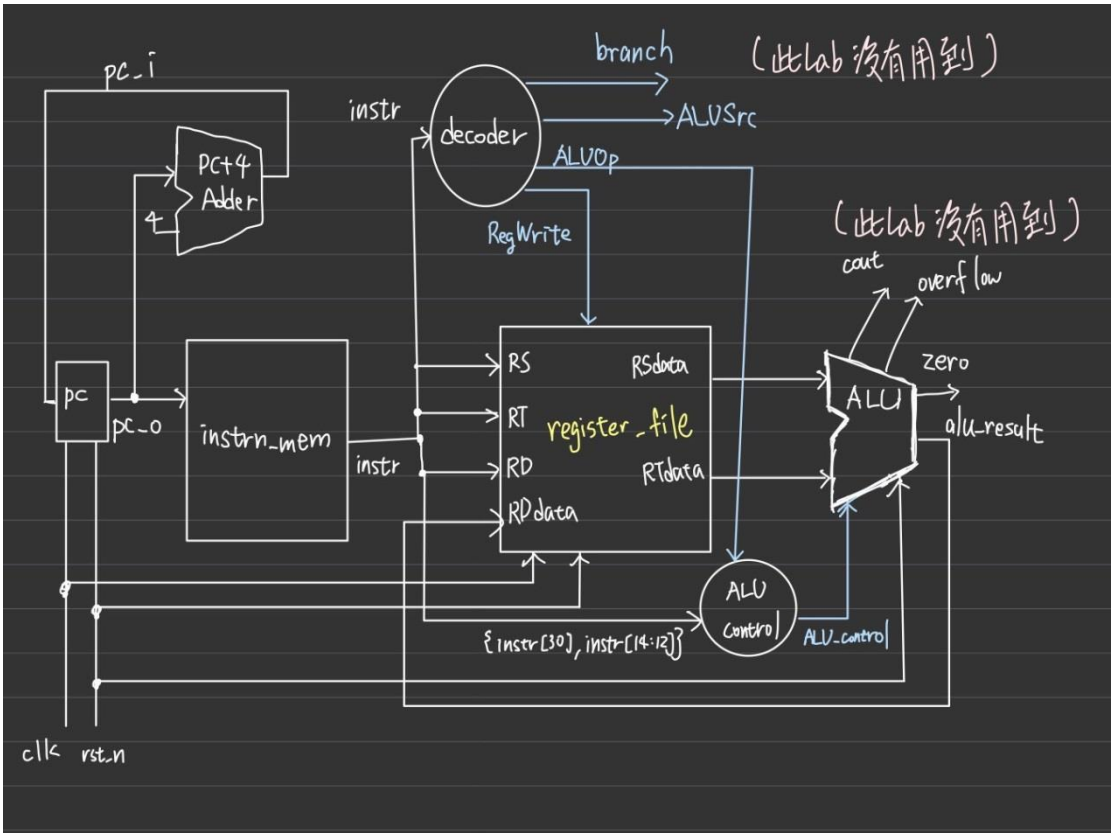
1. The picture below is my architecture, most part follow the diagram attached in the slide.



Execution result:

```
kkmelon@DESKTOP-TEEM7HG: ~/ComputerOrganization
/home/kkmelon/.hushlogin file.
kkmelon@DESKTOP-TEEM7HG:~$ ls
ComputerOrganization
kkmelon@DESKTOP-TEEM7HG:~$ cd ComputerOrganization/
kkmelon@DESKTOP-TEEM7HG:~/ComputerOrganization$ ls
Lab3Answer  Lab3Code  Lab3test  README.md  lab3TestScript.sh  readme.txt  slide
kkmelon@DESKTOP-TEEM7HG:~/ComputerOrganization$ ./lab3TestScript.sh
*************** CASE 1 ******************
Testcase 1 PASS
*************** CASE 2 ******************
Testcase 2 PASS
*************** CASE 3 ******************
Testcase 3 PASS
*************** CASE 4 ******************
Testcase 4 PASS
*************** CASE 5 ******************
Testcase 5 PASS
*************** CASE 6 ******************
Testcase 6 PASS
*************** CASE 7 ******************
Testcase 7 PASS
*************** CASE 8 ******************
Testcase 8 PASS
*************** CASE 9 ******************
Testcase 9 PASS
*************** CASE 10 ******************
Testcase 10 PASS
=======================================
Total Score:100
kkmelon@DESKTOP-TEEM7HG:~/ComputerOrganization$
```

The problem I met in this lab is that I don't know how to set the linux-like environment. I tried to download ubuntu on the internet but it's only a .iso file(not sure), though I know it has to be an .iso file, I don't know how to open the terminal. So I gave up. But I was still worried about whether my code will run properly on TA's environment, so I tried again.

TA recommended using docker, and while downloading docker, it asked me to download a VM, so I chose ubuntu. The download process is through microsoft store, and I open it after I finished downloading. And the terminal pops up.
But the work isn't done yet. Then it pops the error Error: 0x800701bc, and I found
https://github.com/microsoft/WSL/issues/5393
and follow the instructions in
https://docs.microsoft.com/zh-tw/windows/wsl/install-manual#step-4---download-the-linux-kernel-update-package
to finish the setting.
Then I met with another problem—I don't know how to pass my file to ubuntu.
I chose to upload the file on to GitHub and use git clone to download the files.
Because I used SSH key to connect to GitHub so I had to generate new SSH key.
Following the reference
https://docs.github.com/en/authentication/connecting-to-github-with-ssh
https://docs.github.com/en/authentication/connecting-to-github-with-ssh/adding-a-new-ssh-key-to-your-github-account
I successfully finished my lab.