

## Lab 9

### Stack and Github Lab

The goal of this lab is to learn how to use github along with reviewing how to implement a very basic stack in LC3

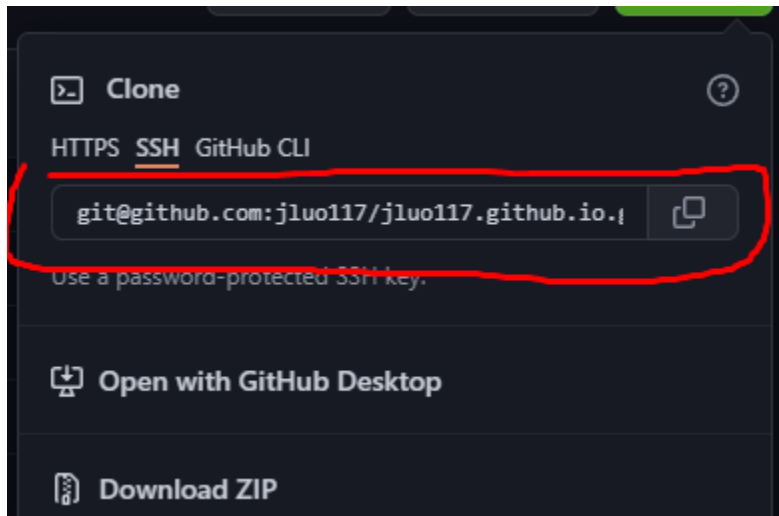
#### Stack Lab

1. Look at the code that is given along with the lab
2. Implement two functions as stated in the starter code
  - a. `push_val(a)` pushes a value to the top of the stack
  - b. `add_val()` pops the top two values on the stack and adds them together then push it onto the stack
3. Call the functions according to the order presented on the starter code
4. Copy the top value over to R4 at the end

#### Github

1. Sign up for a github account(github.com)
2. Install git on your computer  
<https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>
3. Set up github ssh  
<https://docs.github.com/en/authentication/connecting-to-github-with-ssh/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent>
4. Make an empty repo on github

5. Get ssh address you need for your clone



6. Clone the repo using the command line using ssh “git clone {ssh\_address}”

7. Move the stack\_lab over to the folder you just cloned

8. Push it on github in these three easy steps

a. Git add .

b. Git commit -m “{your message}”

c. Git push

9. You should see your changes on github