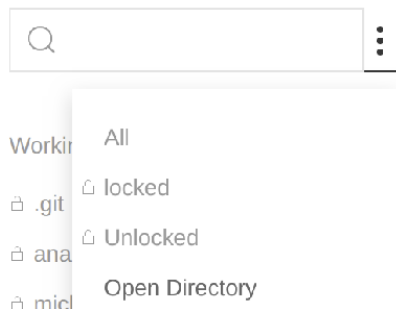# General Instructions:

TAKE SOME TIME AND READ BELOW CAREFULLY. PRACTICE ON VLAB BEFORE THE EXAM IF NEEDED.
Seating Arrangement: 📄 midsem_seating_arrangement.pdf

Vlab Related:

1. To open vlab, type vlab at a terminal; you will be prompted to enter some password (labuser) (DO NOT use vlab &, since we set up some alias)
2. All files you edit in vlab need to be saved before evaluation. Press ctrl + s to save the files. You can look for that asterisk(*) sign on top of each file to check whether the files are saved.
3. **It is recommended to commit your files from time to time so that you can restore any version of your code you want.**
4. To make a submission , click on the submission button and select the commit id that you want to submit for final evaluation from the drop-down menu or local directory. Once selected, press the submit button.
   a. Note: If you see clicking the submit button is taking too long (i.e the spinner is moving for more than 10-15 secs) just click outside and submit again i.e retry the submission, it will be faster this time.
   b. Note: you can make the final submission any number of times you want within the entire exam duration. Only the latest final submission will be evaluated.
   c. **IMPORTANT: We strongly encourage you to make periodic final submissions for every activity. In case the machine crashes, you can move to another machine, login and download your submission. Copy/paste the content and proceed.**
5. To access individual files in an activity via an outside editor (say vscode), in some machines, the GUI is not working. In this case, please navigate via command line using "cd" to the relevant folder (e.g. cd Documents/bodhitreeWorkspace/chebrolu_cse_iitb_ac_in/12/9/..) and then do "code filename". To find the path of a file, in vlab you can use open directory that tells the path (see below image)

6. The lab docker image for activities are a bit heavy. It may take some time for it to load once you click attempt and also to close experiment. Be patient. We will anyway share

the lab directories of all activities on robin, you can download this. And use local terminal, code etc to get started and not waste time.

7. Once you have made your submission, verify your submission.
    a. Click on previous submission -> Previous Final Submission and verify if there is an entry in the table.
        i. Note: Even If you have made multiple submissions it will show only one entry but files get replaced so don't panic.
    b. **VERY IMPORTANT:** For the entire lab, in the experiments page, under all activities, there will be a Lab Submission button at the very bottom right. Clicking it will download all activity submissions. Go through individual files and check the content carefully that it is indeed what you wish to submit. This means your submissions for activities are on the server and we will evaluate what is in here. Any errors, fix and resubmit and recheck.
    c. **VERY IMPORTANT. In case there was any issue with Vlab submission and time is running out, this is the backup procedure to follow (ONLY IF THERE IS AN ISSUE!)**
        i. **FIRST do not leave without informing a TA. Tell TA what the issue is. TA will note your name and machine no.**
        ii. **Create a folder called submission_rollno_cs108 (replace rollno with your rollno). Copy the downloaded submissions from vlab for the exam into this folder and check everything is fine.**
        iii. Confirm with TA and ensure TA pulls this submissions into a pendrive or we will pull from the machines with the help of sysads. This is a backup in case there is some mess up
        iv. THIS RESPONSIBILITY LIES WITH YOU. ANY ISSUE HAS TO BE BROUGHT UP WITH TA BEFORE LEAVING.

Lab Details:

1. NO INTERNET WILL BE AVAILABLE DURING THE LAB OTHER THAN TO BODHITREE SERVERS. You can download whatever you want before the exam starts.For this and also otherwise, you need to **sso to internet.iitb.ac.in before start of the exam.**
2. The marks distribution across the topics is unix-command line: 6, HTML/CSS/Javascript: 10; make: 4; gdb:4, git: 6
3. **Marks if any provided on the vlab app are for practice only and may not have any correlation with the final marks which will be determined based on server side evaluations.**
4. Checklist: Before exam starts, please check the following is working fine in your machine.
    a. On local terminal,
        i. man pages are working
        ii. Vscode is working if you are using

        iii. Vscode has relevant live preview installed, if not install it yourself
        iv. Gdb is working
        v. Make is working

b. Login to vlab app and access past activities
        i. Check if the files in some of these are opening via vscode or some other terminal (use cd as mentioned above if gui is not working)

c. Open the dummy lab (this has the same image as activities in midsem, non HTML) and check that
        i. Pop up terminal is popping
        ii. Submission is working
        iii. Evaluate if working

5. Please note that pen drives are not allowed. You can bring notebooks with you.