

Lab Instructions

Account Creation, Lab Exercise
Basics

ENGG1110A-F 2021-2022

Introduction

- Lab exercises is the most important learning activity in the course
- To successfully pass this course, you must observe many rules, resources and instructions in conducting lab and finishing lab exercises
- There are slightly different rules and instructions across sections; Your instructor will announce how to count your participation after the add/drop period (Week 4)

CWEM Email/Account

Your "Campus-Wide Email" is provided by CUHK and is the most important account for our many CUHK related activities

- OnePass/ @Link/ O365/ Antivirus/ CADS/ VPN/ CUHK1x
 - **Sometimes** Username: 1155xxxxxx
 - **Sometimes** Username: 1155xxxxxx@link.cuhk.edu.hk
 - The SAME OnePass/ @Link/ CADS/ CWEM Password
- Please make sure you know how to access the above email/account
- Supposedly you would also have an Engineering Faculty computing account (exclusive to Engineering students!); However this semester you are not allowed to use the campus labs yet, so it will probably be available later

So Where Are
My Lab Exercises?!

Replit Demo!

Step 1. Join the Course on Replit

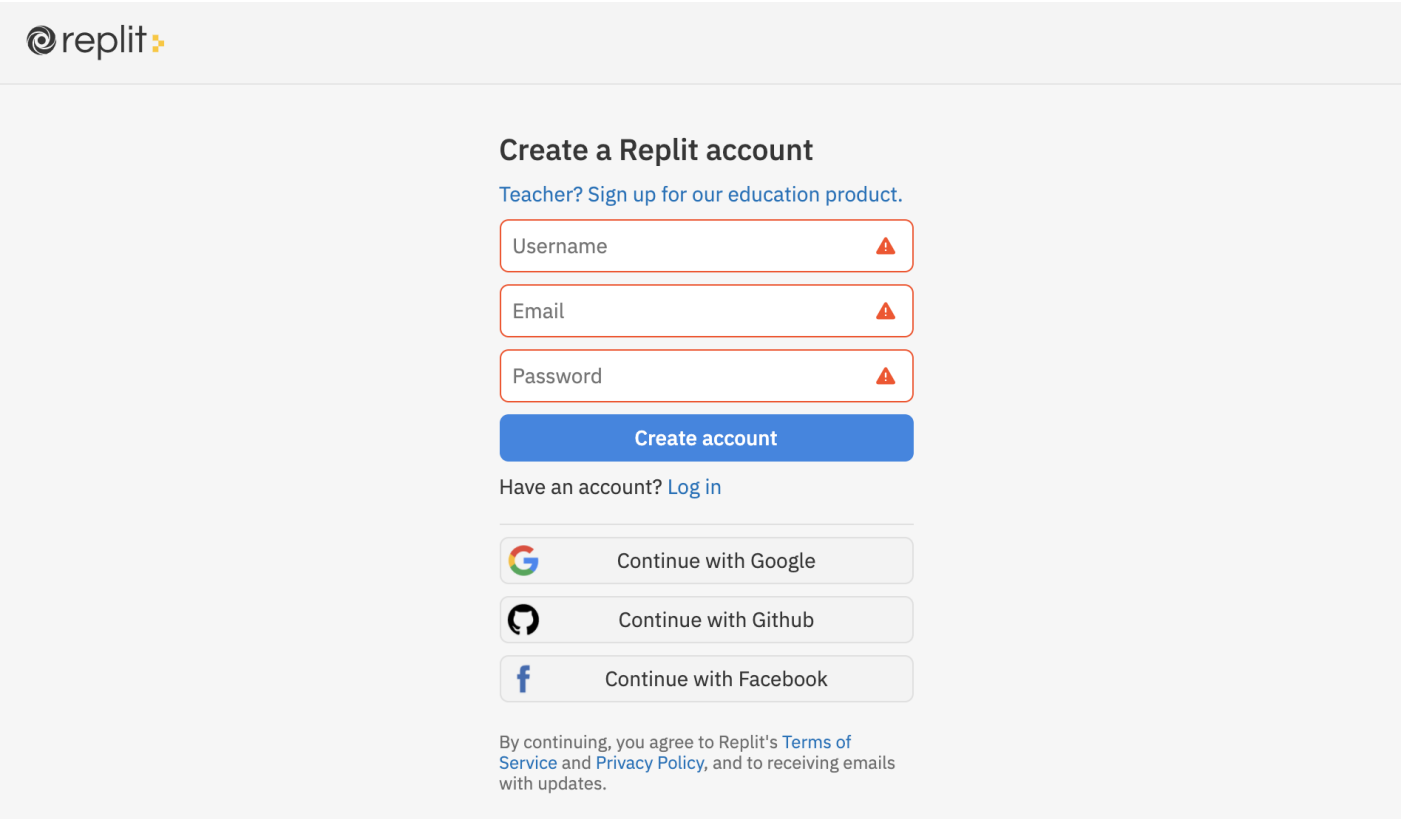
Please follow the link here:

- <https://bit.ly/3BmtjCV>

This is where our lab exercises are hosted (Replit).
You can access these exercises anytime online. No
excuses for not studying!

Step 2. Create a Replit Account with your original CWEM email

You will see the following screen:



The image shows the Replit account creation interface. At the top left is the Replit logo. The main heading is "Create a Replit account". Below it is a link for teachers: "Teacher? Sign up for our education product." There are three input fields: "Username", "Email", and "Password", each with a red warning icon to its right. Below these fields is a blue "Create account" button. Under the button is the text "Have an account? Log in" with a link. Below this is a section for social login with three buttons: "Continue with Google", "Continue with Github", and "Continue with Facebook". At the bottom, there is a disclaimer: "By continuing, you agree to Replit's Terms of Service and Privacy Policy, and to receiving emails with updates."

replit

Create a Replit account

[Teacher? Sign up for our education product.](#)


Username ⚠


Email ⚠


Password ⚠

Create account

Have an account? [Log in](#)

 Continue with Google

 Continue with Github

 Continue with Facebook

By continuing, you agree to Replit's [Terms of Service](#) and [Privacy Policy](#), and to receiving emails with updates.

Step 2. Create a Replit Account with your original CWEM email

Please use your original CWEM email (with student id) to sign up

<student-ID@link.cuhk.edu.hk>
e.g. 1100999999@link.cuhk.edu.hk

DO NOT USE ALIAS OR OTHER EMAIL

donaldtrump@link.cuhk.edu.hk **X**

donaldtrump@gmail.com **X**



Create a Replit account

Teacher? Sign up for our education product.

Username

Email

Password

Create account

Have an account? [Log in](#)

Continue with Google

Continue with Github

WARNING: Your submissions will NOT count if you use any email other than your original CWEM email (with student id); No excuses

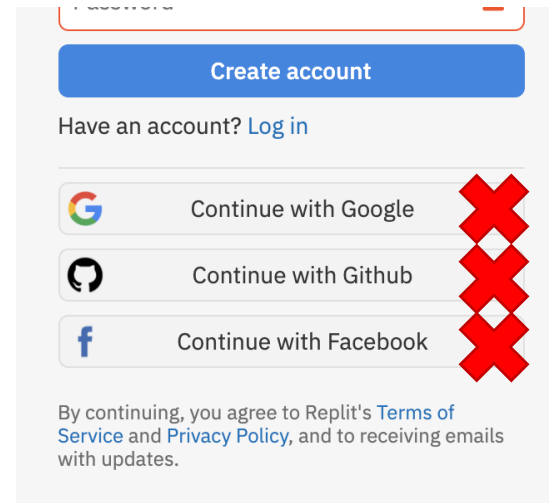
Step 2. Create a Replit Account with your original CWEM email

Please use your original CWEM email (with student id) to sign up

NEVER USE THE OTHER SIGN-UP OPTIONS

- **NO** GOOGLE ACCOUNT
- **NO** FACEBOOK ACCOUNT
- **NO** GITHUB ACCOUNT

This is for marking purpose. You must use your CWEM account.

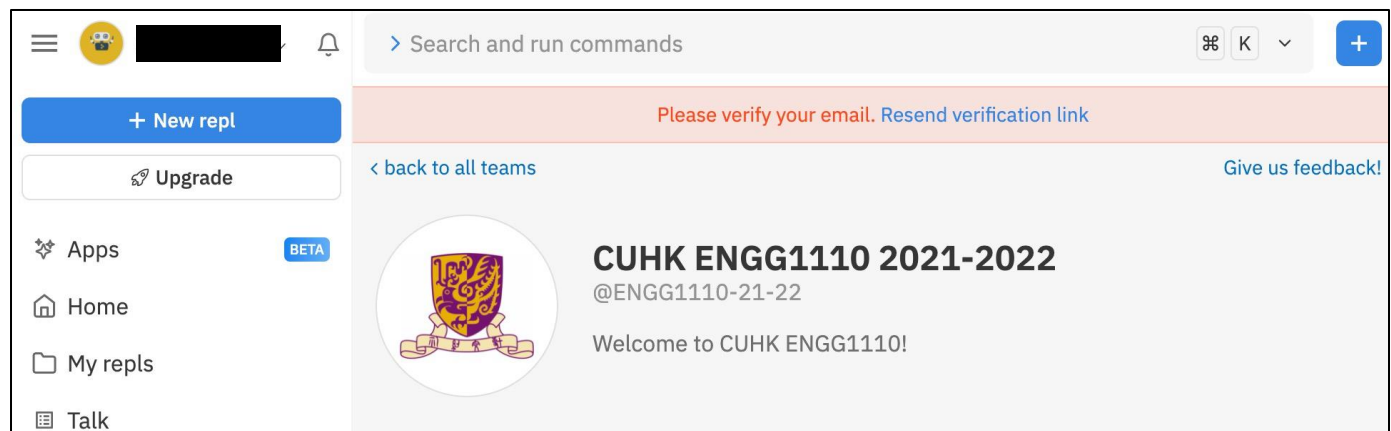


WARNING: Your submissions will NOT count if you use any email other than your original CWEM email (with student id); No excuses

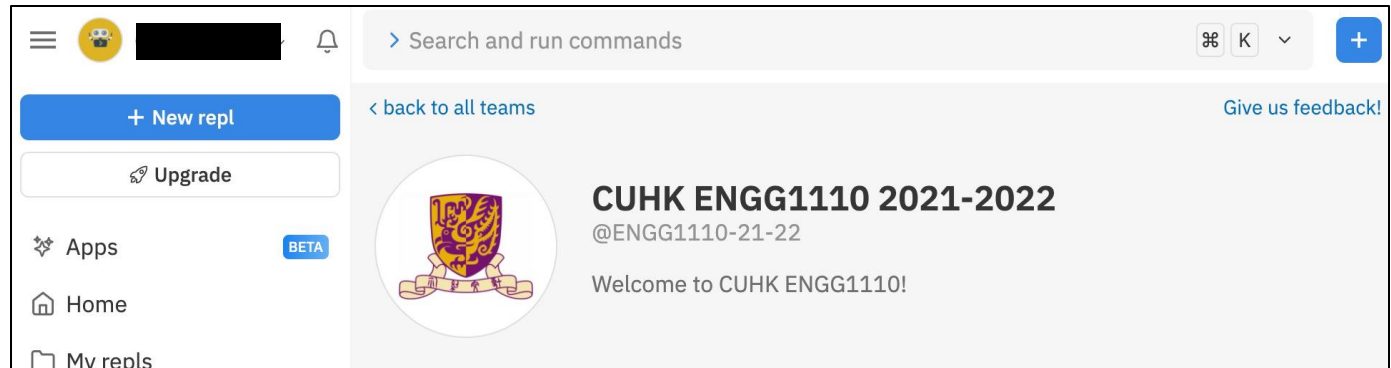
Step 3. Verify and Check Your Account

You will receive a verification email to your CWEM email account; visit the provided link to verify your account.

Unverified

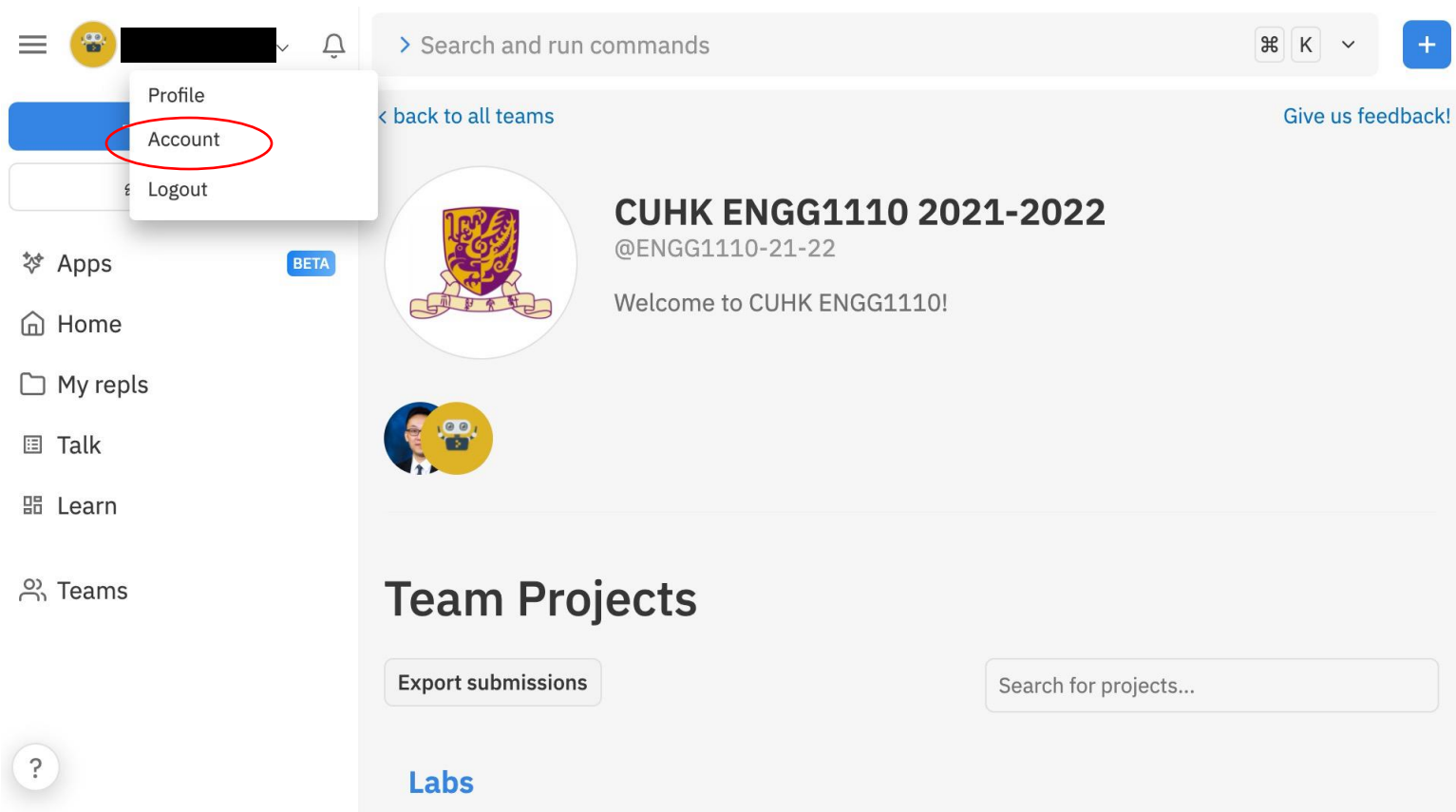


Verified



Step 3. Verify and Check Your Account

After verification, check your account



Step 3. Check Your Account

Scroll down to "Account"; make sure it is a CWEM account with student ID

NOT a CUHK CWEM
account! WRONG! Please
enter the right email
account, and verify your
email again; do not modify
it to personal email, or you
will NOT get any lab marks

Account

Your email
myname@example.com [Change](#)

Your password



Account

Your email
1100999999@link.cuhk.edu.hk [Change](#)

Your password

Step 4. Go to Course

Once confirmed you have entered a proper email address, click "Learn/Teach" or "Student" to go to our course:

The screenshot displays the Teams application interface. On the left sidebar, the 'Teams' menu item is highlighted with a red circle. The main content area shows the 'Teams' section with a search bar at the top. Below the search bar, there are sections for 'Friends' and 'Education'. The 'Education' section lists 'The Chinese University of Hong Kong' with a team name 'CUHK ENGG1110 2021-2022' circled in red. The 'Teams' menu item in the sidebar is also circled in red.

Search and run commands

+ New repl

Upgrade

Apps BETA

Home

My repls

Talk

Learn

Teams

Teams

+ Create a new organization

Friends

Teams for Friends is a place for friends to collaborate on shared repls.

Create your first team

Education

The Chinese University of Hong Kong

CUHK ENGG1110 2021-2022

Blog About Careers Pricing Discord

Summary

- Go to <https://bit.ly/3BmtjCV>
- Create an account with your CWEM email address
 - DO NOT USE any other email address (no marks for non-CUHK addresses)
 - DO NOT USE any existing personal account (no marks for any personal accounts)
- Verify your account by checking email from Replit (may get into spam folder)
- Please create the account now

Lab Exercise Rules

- Two sets of exercises each week – **Pre-Lab Exercises** and **Lab Exercises**
- **Pre-Lab Exercises** are very short and easy for you to warmup, and you should finish before the Wed Lab (precisely, Wed 9:30am morning)
- **Lab Exercises** are usually due next Mon 1:00pm
- Obviously, please always finish Pre-Lab first

Tip: Browser Notifications

- No need to allow browser notifications.

Replit needs your permission to enable notifications.

Never miss messages from your collaborators if you're in another tab or window.

Cancel

Confirm

Tip: Lab Exercises Layout

The screenshot shows a web-based lab exercise interface. At the top, the breadcrumb path is "ENGG1110-21-22 / Labs/Lab-0 HEAT-mar...". A "Run" button is visible. On the left, a "Files" sidebar contains a "README.md" file, which is circled in red. An arrow points from the text "Instruction file" to this file. The main editor area shows the content of "README.md":

```
1 # Lab-0 HEAT
2
3 Click run and observe the result!
4
5 This is a test exercise and does not count as an
  assessment.
```

An arrow points from the text "Instructions (read this carefully)" to the "Markdown" tab in the right-hand preview pane. The preview pane shows the rendered markdown:

Lab-0 HEAT

Click run and observe the result!

This is a test exercise and does not count as an assessment.

Tip: Lab Exercises Layout

The screenshot displays a web-based lab environment. On the left, a 'Files' sidebar shows a file named 'main.c' highlighted with a red circle. An arrow points from this circle to the source code editor. The source code editor shows a C program with comments and a 'main' function. On the right, a 'Console' tab is also circled in red, with an arrow pointing to it from the source code editor. The console shows the output of the program, which is 'Hello World'.

Program inputs/outputs

Program source file

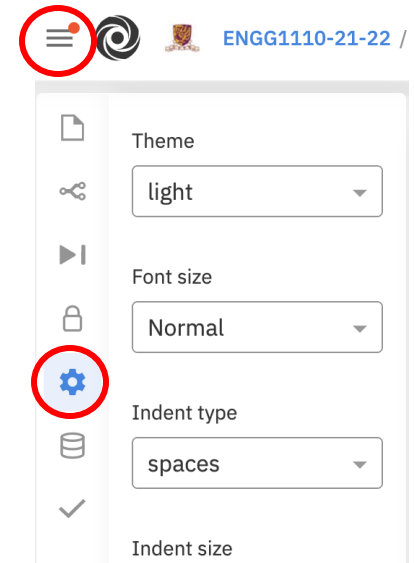
```
1  /**
2  * ENGG1110 Problem Solving by Programming
3  *
4  * I declare that the assignment here submitted is
   original
5  * except for source material explicitly acknowledged,
6  * and that the same or closely related material has
   not been
7  * previously submitted for another course.
8  * I also acknowledge that I am aware of University
   policy and
9  * regulations on honesty in academic work, and of the
   disciplinary
10 * guidelines and procedures applicable to breaches of
   such
11 * policy and regulations, as contained in the website.
12 *
13 * University Guideline on Academic Honesty:
14 *   http://www.cuhk.edu.hk/policy/academichonesty/
15 *
16 * Student Name : xxx <fill in yourself>
17 * Student ID   : xxx <fill in yourself>
18 * Class/Section: A/B/C/D/E/F
19 * Date        :
20 */
21
22 #include <stdio.h>
23
24 int main(void) {
25     printf("Hello World\n");
26     return 0;
27 }
```

clang version 7.0.0-3-ubuntu0.18.04.1 (tags/RELEASE_700/final)

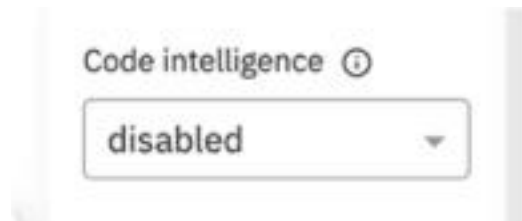
Hello World

Tip: Preferences for Your Editor

- You can customize your Replit editor (theme, color, etc.)

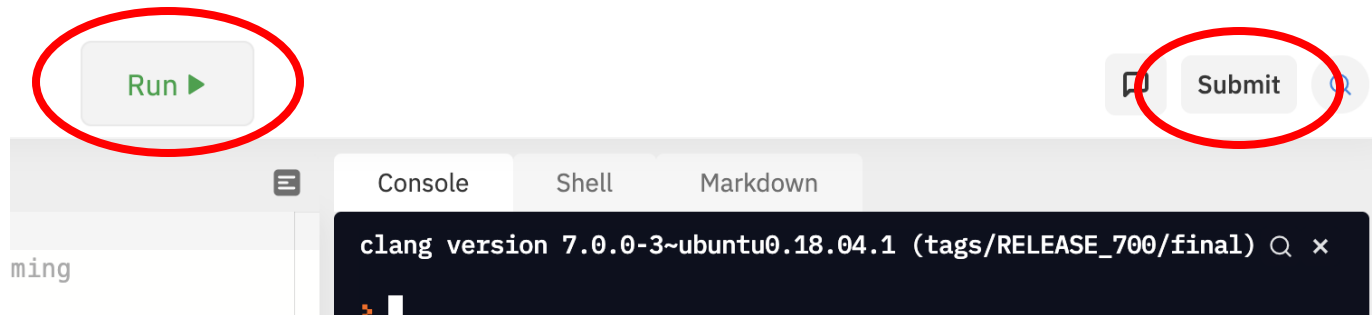


- Usually you want to disable Code intelligence, as it is not helpful for beginners



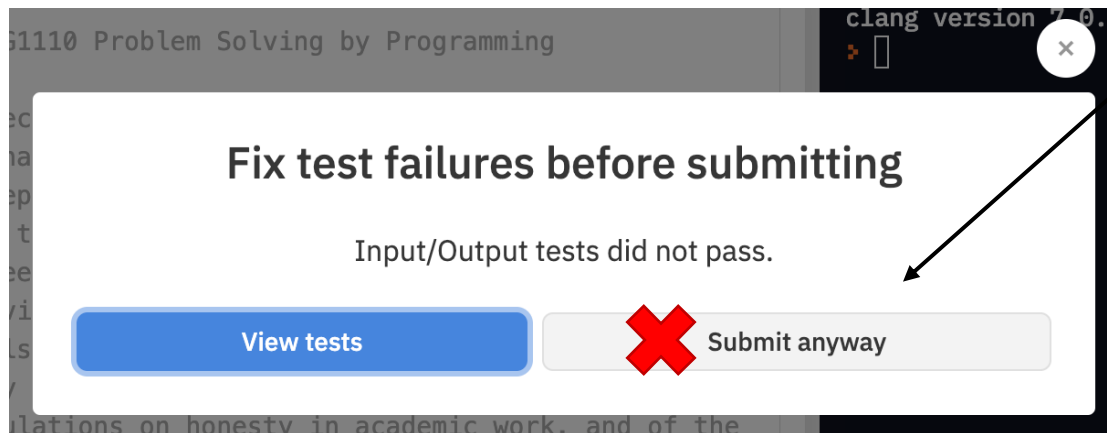
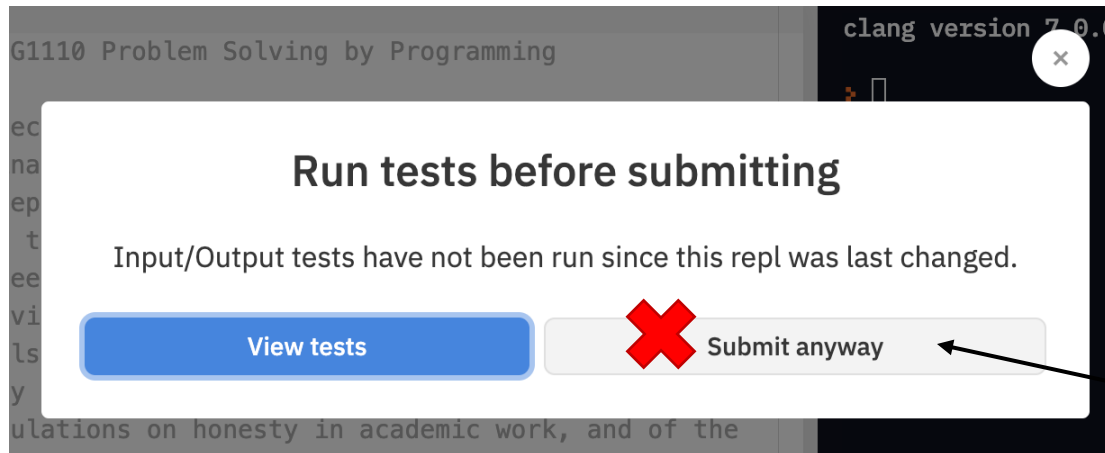
Tip: Remember to Submit

- After you input code in the editor window, you can click "Run" to run the program
- If you believe your program is wrong, work on the program again
- If you believe your program is correct, don't just go to the next exercise! You need to click "Submit"



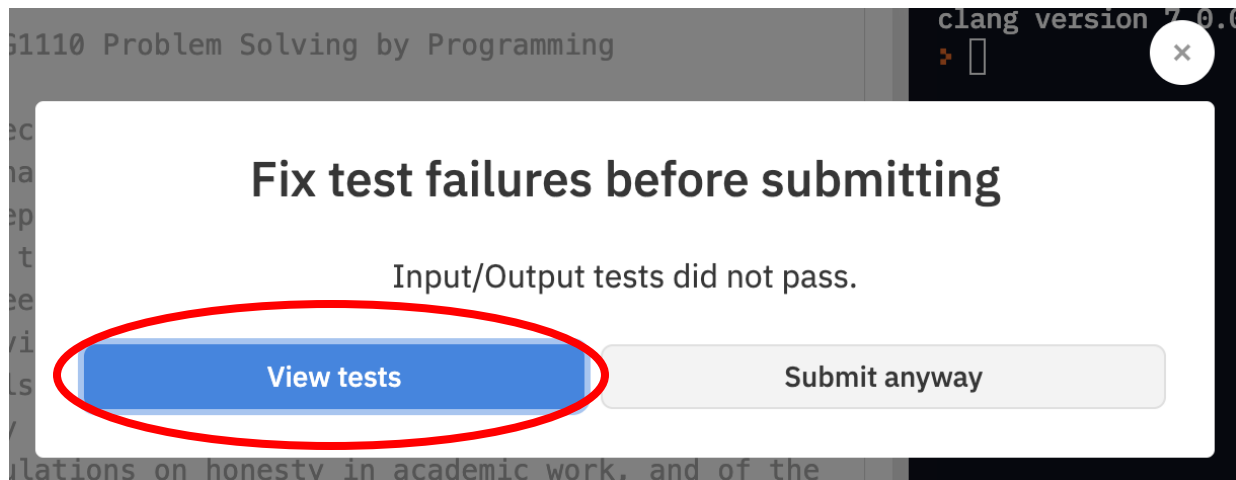
Tip: Don't Click "Submit Anyway"

- When you submit an exercise and not tested or it is incorrect, you will see the following:



Tip: Don't Click "Submit Anyway"

- Clicking on "Submit Anyway" means you submit an incorrect work. That will score you 0 marks for this exercise! Please always click "View tests" to see the problem!



Tip: Don't Click "Submit Anyway"

- Run the tests and see the results.

The image shows a software testing interface. On the left, a sidebar contains several icons: a menu icon (three horizontal lines), a target icon, a university crest, a play button, a lock, a gear, and a database icon. The main area is titled "Input/Output Tests" and contains a section for "Test 1" which is marked as "Failed". A red circle highlights the "Run tests" button, and another red circle highlights the "Results" button. A red arrow points from the "Results" button to a detailed view of the test results on the right. This detailed view shows "Test results: Test 1" with a "match" button and a "Failed" button. It lists the "Expected output" as "0 Hello World" and the "Actual output" as "0 Goodbye!". The "Difference" section shows a comparison of the two strings, with "Hello World" highlighted in green and "Goodbye!" highlighted in red.

ENG1110-21-22 /

Input/Output Tests

Run tests

Test 1

Failed

Results

Test results: Test 1

match Failed

Expected output ?

0 Hello World

Actual output ?

0 Goodbye!

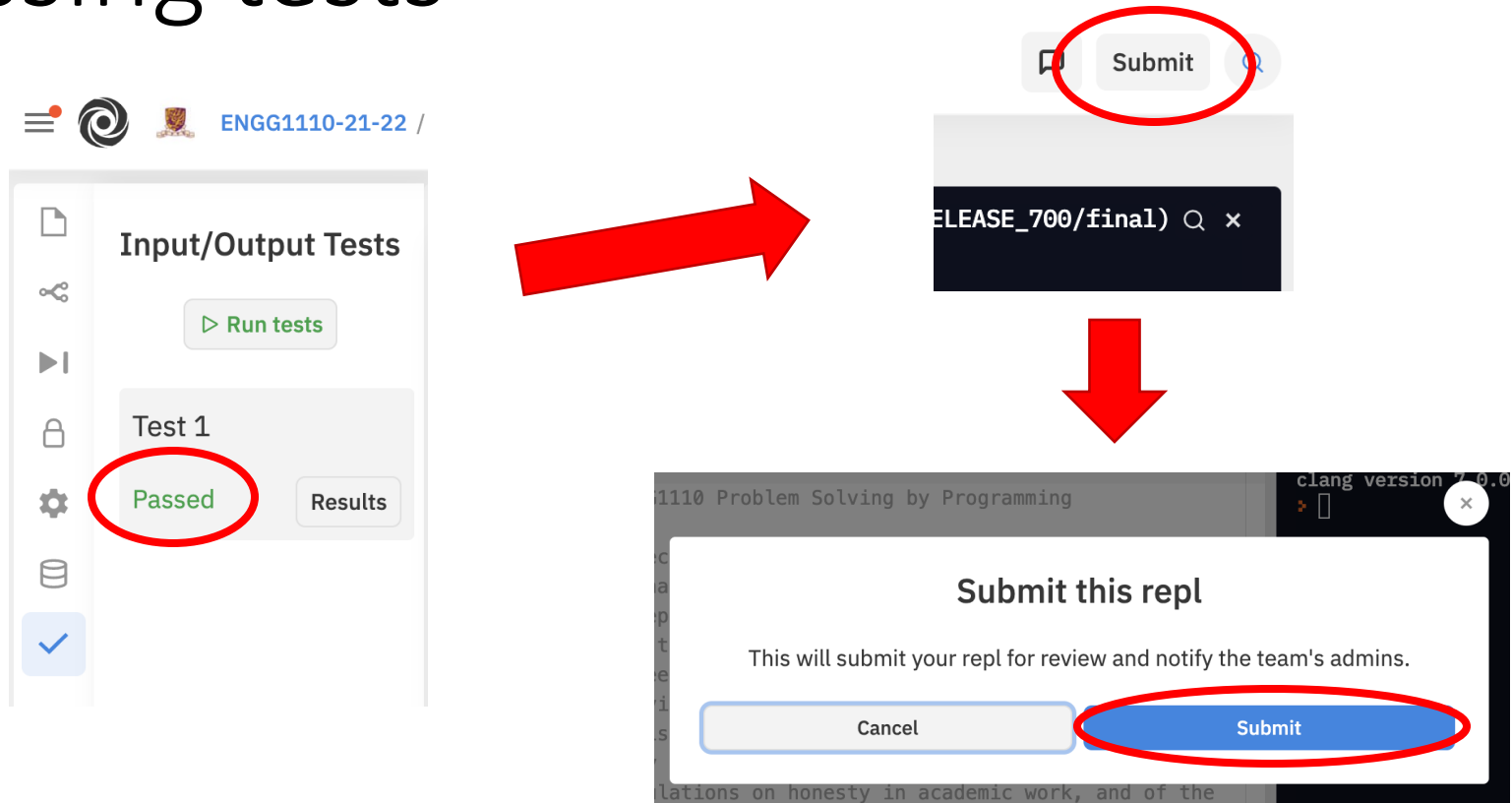
Difference ?

0 Hello Worldbye!

1

- If it fails, check the expected output and actual output.

Tip: Remember to "Submit" after passing tests



- After you understand the errors, try to correct your program, and submit again when you are done!

Late Submission

- Late submissions will result in late penalties (10% - 90% depending on how late)
- However, Lab Exercises amount to 25% of total score, and a portion of questions will be based on these Lab Exercises. **Late submission is always better than no submission!**
- Please remember we have both official Lab hours and Consultation Hours for you to get help from tutors!

Reminder: Consultation Hours

Join if you need more time to finish your lab exercises. Tutors will be offering limited help during these **optional** consultation hours (Tentatively starting from Week 2, venue to be announced):

- Mon: 12:30-13:30
- Thu: 15:30-16:30
- Fri: 15:30-16:30

Your Task Today

- Follow instructions we have covered just now and join our course on Replit if you haven't already
 - Your instructor may check your sign-ups; If you have joined with a non-CUHK email, you will be asked to correct the mistake immediately
- Using a proper Replit account, attempt our first set of Lab Exercises and submit before deadline
 - There are no Pre-Lab Exercises for this week