

# Programming Assignment 1

# Submission

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Deadline: 23:59:59, Sunday, March 17<sup>th</sup>, 2019 (KST, +0900)

- Github server clock

To submit your assignment, you **must** do two things. **Both of them must be done BEFORE deadline.**

1. You should push your commit to your assignment repo before deadline.
2. You should comment the last commit (before deadline) id (SHA-1 hash) in github issue board. (See next slide)

The last commit **BEFORE** dead line will be considered as submitted assignment.

- Github server will track this for me.
- Timestamp in your commit (local time) will be ignored. (I will use github server timestamp instead)

# Commenting Commit ID 1/2

The screenshot shows the GitHub repository page for 'test2-lazysquid' under the 'CGLAB-Classes' organization. The repository is private and has 1 watch, 0 stars, and 0 forks. The 'Code' tab is selected, showing 3 commits, 1 branch, 0 releases, and 1 contributor. The 'Branch: master' dropdown is set to 'master', and there are buttons for 'New pull request', 'Create new file', 'Upload files', 'Find File', and 'Clone or download'. The commit history shows a 'lazysquid commit2' with the latest commit ID 'c604214' 3 hours ago. Below the commit history, there are two 'README.md' files and a list of changes: 'test2-lazysquid' and 'chagne 1 chagne 2'.

1. Go to your assignment repository
2. Click commits
3. Click copy button of your last commit

The screenshot shows the commit history for the repository. The title is 'Commits on Mar 9, 2019'. There are three commits listed:

Commit	Author	Time	Copy ID	Code
commit2	lazysquid	committed 3 hours ago	c604214	<>
commit 1	lazysquid	committed 3 hours ago	ea587c0	<>
Initial commit	lazysquid	committed 3 hours ago	f8b1e5d	<>

# Commenting Commit ID 2/2

The screenshot shows the GitHub interface for creating a new issue. At the top, the navigation bar includes 'Code', 'Issues 1', 'Pull requests 0', 'Projects 0', 'Wiki', and 'Insights'. Below this, there are filter options: 'Filters' with a search bar containing 'is:issue is:open', 'Labels 8', and 'Milestones 0'. A green 'New issue' button is highlighted with an orange box. The main content area shows a 'Submit' button, a 'Write' tab, and a rich text editor. The commit ID 'c604214f6caaef9e22827010783d7716109a5fd8' is pasted into the text area and highlighted with an orange box. A green 'Submit new issue' button is also highlighted with an orange box. At the bottom, there is a note: 'Attach files by dragging & dropping, selecting them, or pasting from the clipboard.' and a footer: 'Styling with Markdown is supported'.

1. Go to issue tab
2. Click "new issue"
3. Paste your latest commit id (Ctrl-v)
4. Click "submit new issue"

# Policy

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In the following cases, your grade for this PA will be 0

- Late submission (Late push before deadline or Late last commit id comment on issue board)
- Build/execution failure
- Making public of your assignment repository
- If you tried to push your commit with force option(Tried to change history of remote server)

Your final grade will be "F"

- Copy

# Task Lists

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1. Practice how to use OpenGL basic gl\* functions [8 Points]
  - Rotate your triangle with respect to time [4 Points]
  - Change your triangle color with respect to time [4 Points]
  - Hints
    - `glfwGetTime` function to figure out current time.
    - Use `sin` and `cos` function in `<cmath>` (or you can use `glm::sin`, `glm::cos` in `<glm/glm.hpp>`)
2. Report [2 Points]
  - Write your name, student id, github id in `report.md` [1 Points]
  - Attach at least two result images in `report.md` [1 Points]

# Expected Results

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Rotating and dimming triangle

# PA1 Link

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1. Login to github
2. <https://classroom.github.com/a/1WB-DUNq> go to following link
3. Accept the assignment