

How-to Guides

Setup

We recommend to use google cloud shell editor if you don't have any bash environment available. If you want to use your local environment, you can always use yours but **docker** must be pre-installed and available for setting dependencies.

About cloud shell editor, see [CloudShellEditor section](#).

If you open the terminal, please clone this repository to your working directory and change the current directory to the cloned directory.

```
git clone <GITHUB_REPOSITORY_LINK>  
cd ./<GITHUB_REPOSITORY_NAME>
```

After cloning, execute "setup.sh"

```
./setup.sh
```

If "setup.sh" executed well, you can see the username changed to "exercise01". The copied repository is at "~/exercise01" and please work within this directory.

Execution

Please write your commands to commandXX.sh and submit the whole repository by pushing the repository. You can run your all "commandXX.sh" files with "main.sh" or run independently.

- Run with main.sh

```
bash ./main.sh
```

- Run commandXX.sh independently

```
bash ./command/commandXX.sh
```

Submission

To submit your result, follow these steps:

- Step 1. Write your commands in commandXX.sh in the "command" directory
- Step 2. Write the result to ./result/resultXX_X.txt or ./result/resultXX_X.csv

"." is relative path for current working directory and "./result/" is the directory named "result" in the current directory. For the first exercise, please copy the numbers or results from the terminal and paste it to result files. From the second exercise, you may use redirection to files.

- Step 3. Add edited files to git and commit. You can use the commands below or GUI of cloud shell editor.

```
# Tell git who you are.
git config --global user.email "you@example.com"
git config --global user.name "Your Name"
# Update the change.
git add .
git commit -m "Initial commit" # The message can be changed as you want.
```

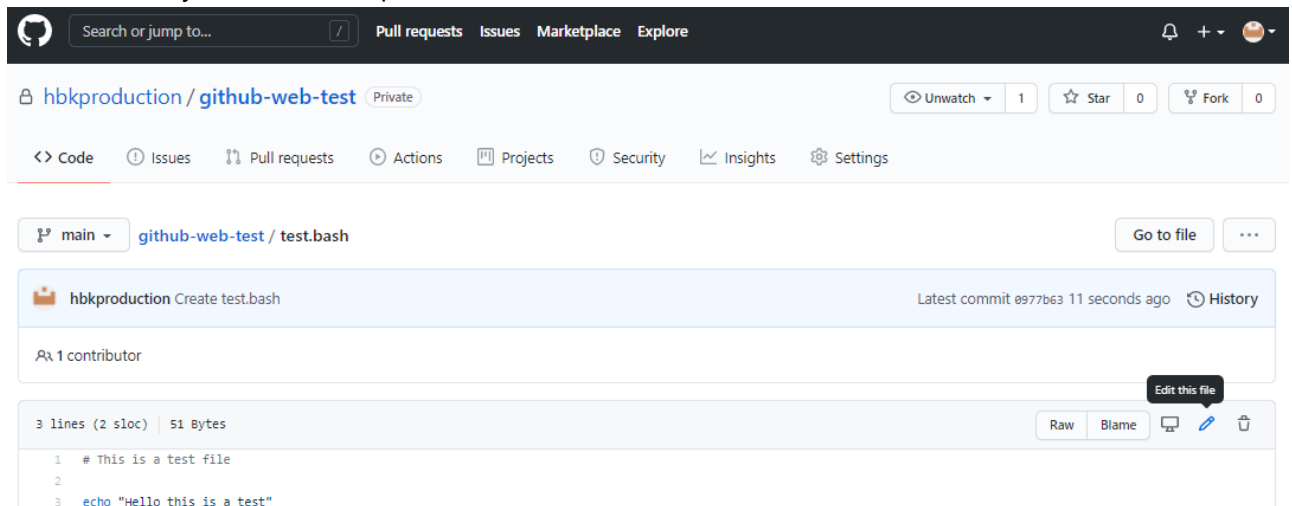
- Step 4. Submit your answers by pushing the cloned repository.

```
git push origin master
```

You may need to enter your github ID and password in this step.

If you have problems with using git, you can use the interface of github. You can edit commandXX.sh or resultXX.txt directly in the github repository web site as follows:

- Step 1. Click a file to edit and click the pencil icon at the top right corner. When you hover the cursor over the icon, you will see the phrase "Edit this file".



- Step 2. Edit the file with the text editor and click the green button with "Commit changes".

github-web-test / test.bash in main Cancel Changes

<> Edit file Preview changes Spaces 2 No wrap

```
1 # This is a test file
2
3 echo "Hello this is a test"
4
5 echo "A new change!"
```

Commit changes

Update test.bash

Add an optional extended description...

☒ Commit directly to the main branch.

☐ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changes Cancel

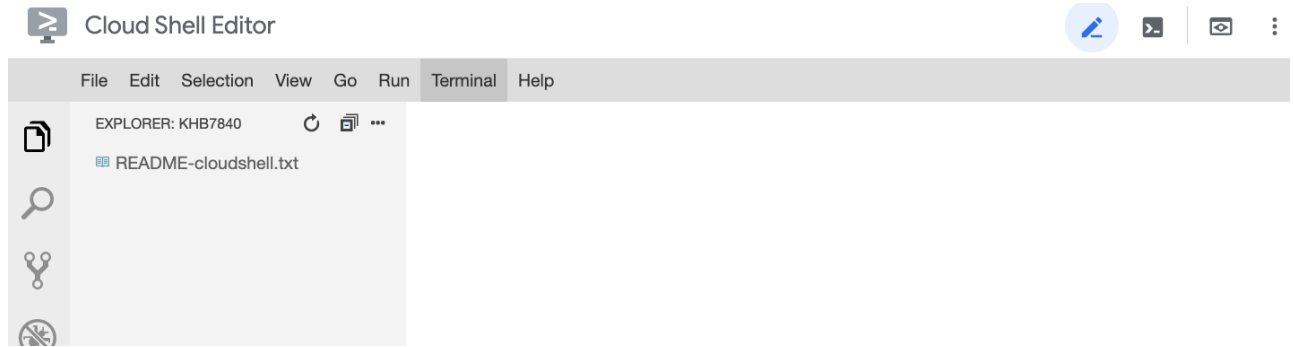
You can submit your result multiple times and the last version before the deadline will be graded.

CloudShellEditor

Guide document by Google is great: [link to guide](#).

You must have a Google account to use cloud shell (SNU account is fine). You can start to work on this exercise in Cloud shell as follows:

1. Open the link <https://ide.cloud.google.com>
2. Open a terminal from the cloud shell editor. You can open a new terminal by clicking the icon contains ">_" or selecting terminal at the menu.



As a free service, Google Cloud Shell has some limitations. Please check these before doing your jobs.

Limitations

- It takes some time when initiating.
- 5GB storage limit
- Cannot be opened with secret mode of browser
- **If the session is inactive for 20 minutes, the instance is terminated and any modifications outside \$HOME will be deleted.**
- Weekly usage limitation: ~50hrs
- If you don't access cloud shell for 120 days, the \$HOME will be erased.

WARNING: Please don't provide your billing information unless you use google cloud platform.

If you have problems, please ask me at the zoom meeting or mail to me (kjb7840@snu.ac.kr)