Docker User Guide

Install Docker Desktop for your OS:

- Windows: https://docs.docker.com/desktop/install/windows-install/
- MacOS: https://docs.docker.com/desktop/install/mac-install/

From a terminal (cannot be the git bash terminal!) navigate into the provided folder (after unzipping it) and run the following command - make sure to type the "./" at the end.

```
docker build -t cs2200image ./
```

You will never need to execute this command again unless you have changed your Dockerfile. Now that you have built the docker image, you can actually run a container instance using the scripts we provided you. You do this by first opening docker desktop to run in the background, then typing:

- on Windows

  ```
  run.bat
  ```

- on Mac&Linux

  ```
  chmod +x run.sh
  ./run.sh
  ```

If this was successful you should see something like

```
root@57a4f8b9fe5b:/cs2200#
```

And at this point you are inside the container and can type commands (including gcc and gdb!). If you type `ls` you will see the contents of the workspace directory that is shared between your computer and the container. You should place your homework and project files in this directory so that you can use `gcc` and `gdb` on them.

You can close the container by typing `exit`. If you close out of the terminal instead, the container will still be running in the background, and you will not be able to create a new one. If you did this, try typing `docker stop cs2200` and `docker container rm cs2200` from a terminal on your computer.

To open the container again just use the run.bat/run.sh script from above. **To open additional terminals for the same docker session**, use the attach script we gave you in a separate terminal (you will need this for project 5). Execute it the same way as the run.bat/run.sh script (including running chmod on it).