NPLAS System using Docker

1. DOCKER INSTALLATION

2. WINDOWS SUBSYSTEM FOR LINUX (WSL) INSTALLATION

3. DOWNLOAD NPLAS SYSTEM FROM DOCKER

DOCKER INSTALLATION

Download Docker

Window

https://www.docker.com/products/docker-desktop

System requirements

- Windows 10 64bit Home, Pro (21H1>=), Enterprise, Education (20H2>=)

- Windows 11 64bit Home, Pro (21H2>=), Enterprise, Education(21H2>=)

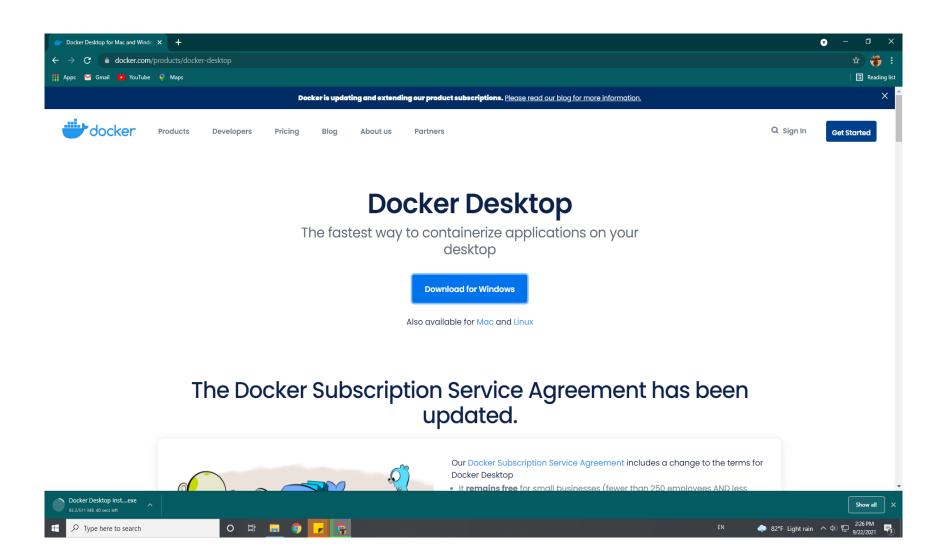
MAC

https://docs.docker.com/desktop/mac/install/

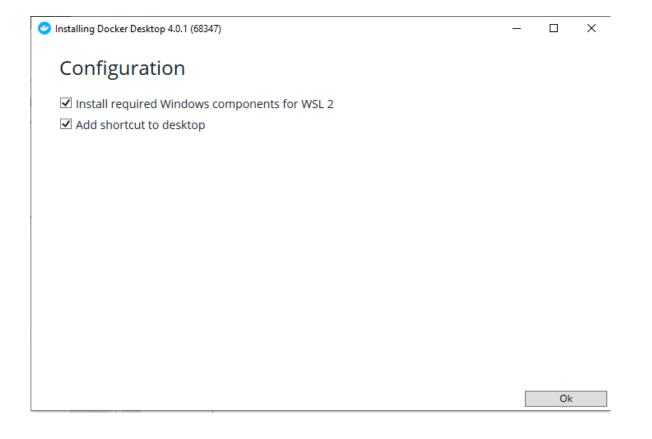
Linux

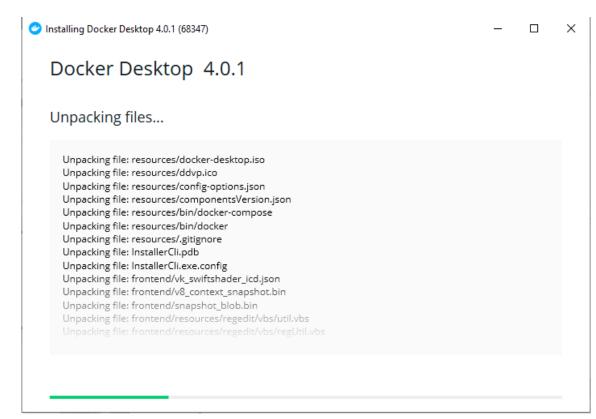
https://hub.docker.com/search?offering=community&operating_system=linux&q=&type=edition

- 1. This manual file will show Window installation procedure.
- 2. After downloaded, double-click InstallDocker.msi to run the installer.



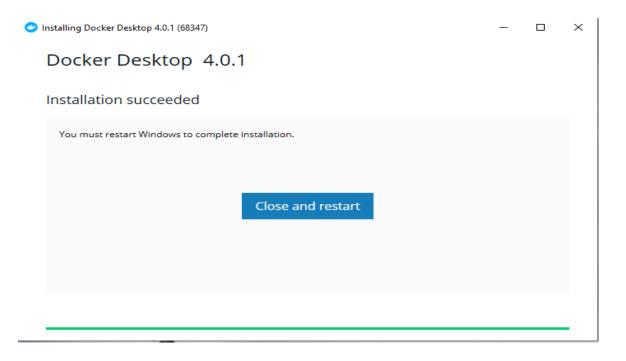
3. Follow the Install Wizard to proceed the installation.

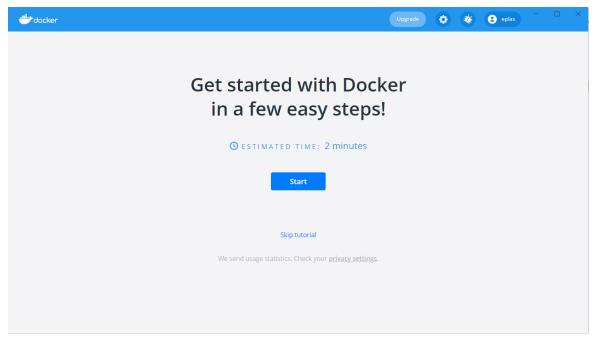




4. Click Finish to launch Docker.

5. Docker starts automatically and loads a "Welcome" window giving you tips and access to the Docker documentation.



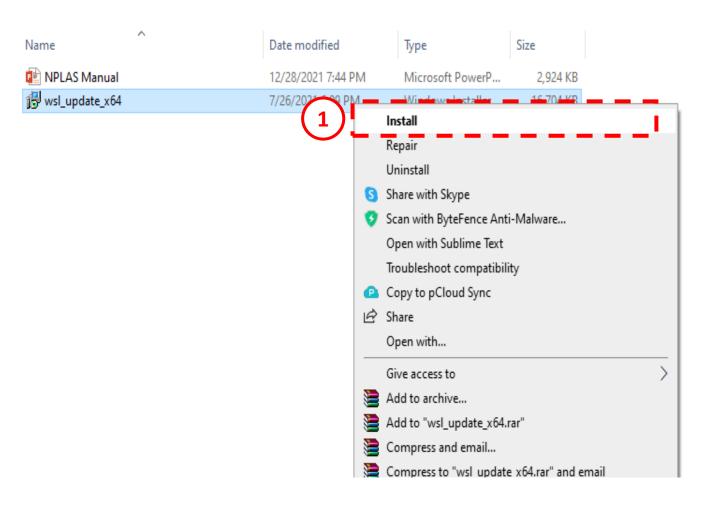


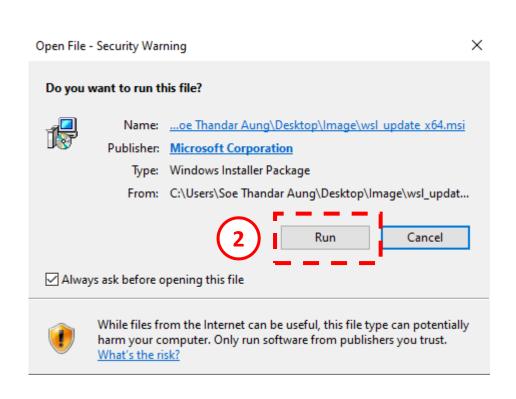
WINDOWS SUBSYSTEM FOR LINUX (WSL) INSTALLATION

Only Window OS user needs to do this process.

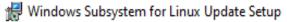
1. Install WSL from this link ->

https://wslstorestorage.blob.core.windows.net/wslblob/wsl_update_x64.msi









. . .

Installing Windows Subsystem for Linux Update



Please wait while the Setup Wizard installs Windows Subsystem for Linux Update.

Status:

Back Next Cancel



Windows Subsystem for Linux Update Setup



×

Completed the Windows Subsystem for Linux Update Setup Wizard

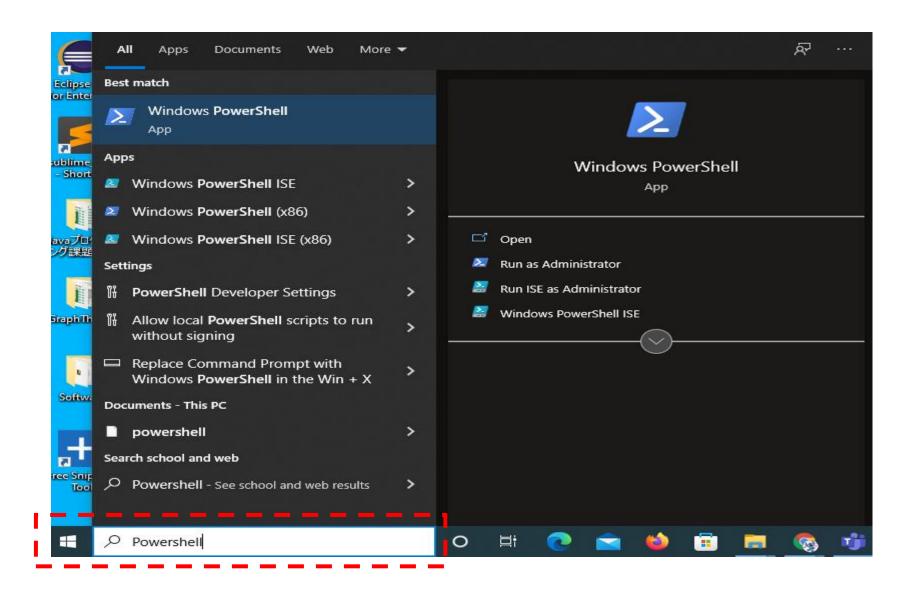


Click the Finish button to exit the Setup Wizard.

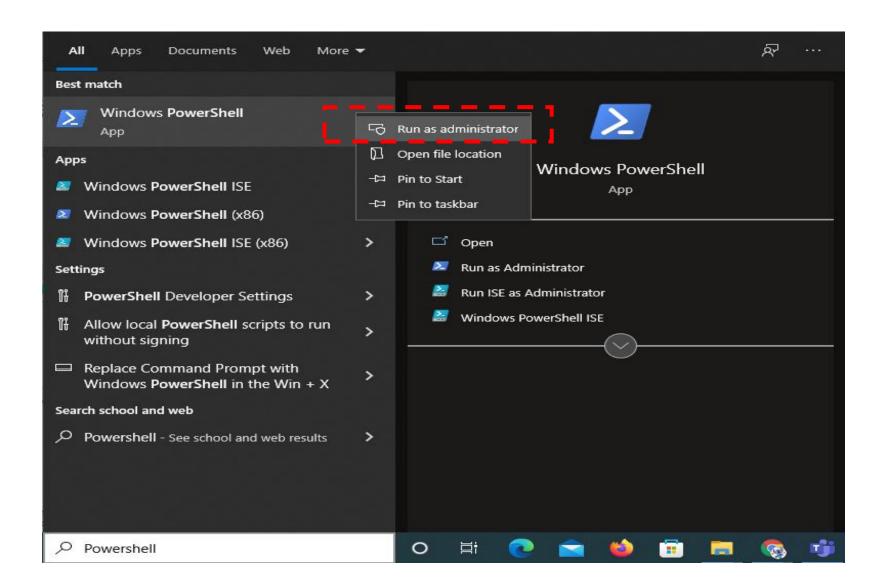


Cancel

2. Click Start and type Powershell.

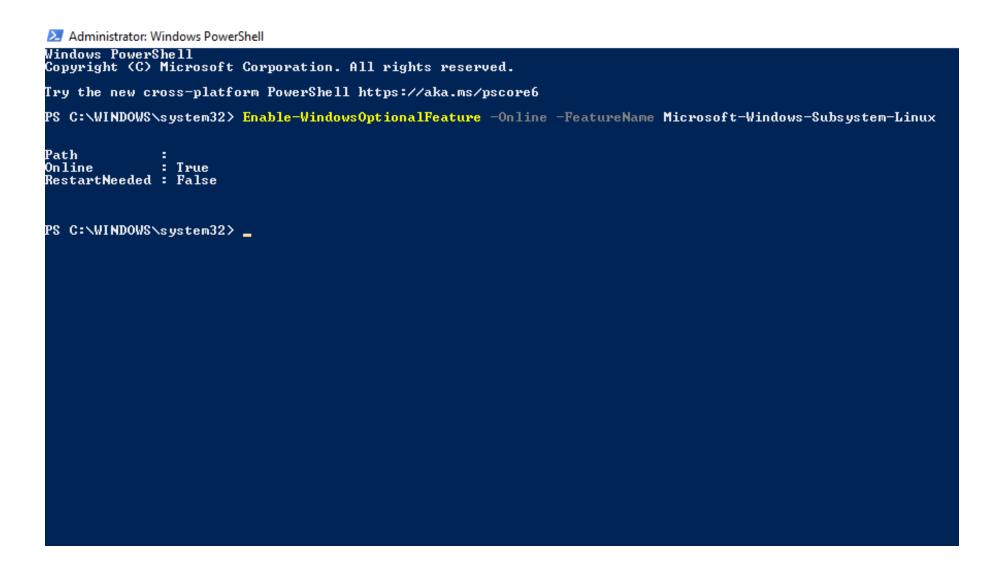


- 3. Right-click and select the Run as administrator option.
- 4. Choose "Yes" and then you will see the Powershell command prompt.



5. To enable the Linux subsystem, type the following command and press Enter.

Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Windows-Subsystem-Linux



6. To enable Hyper-V for switching to WSL 2 based engine, type the following command and press Enter.

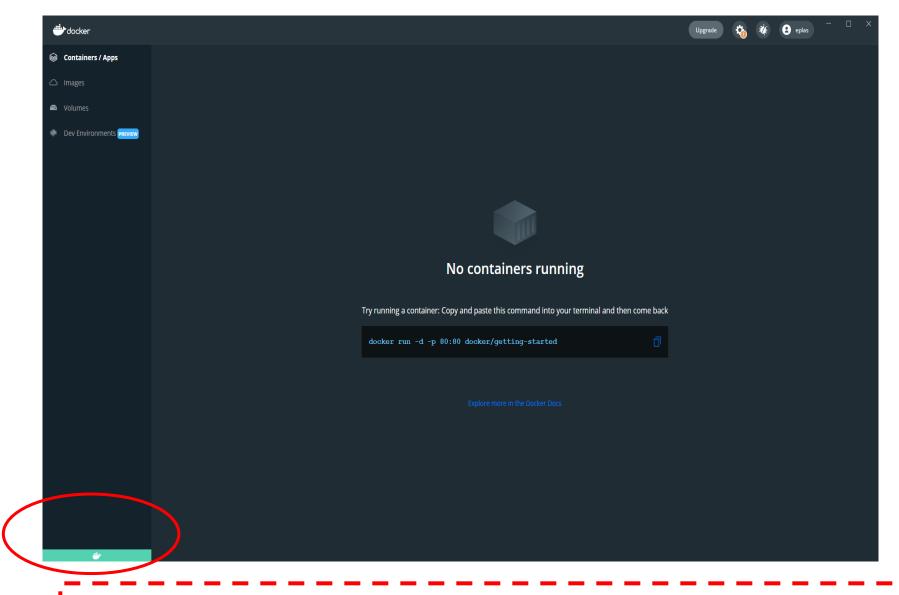
Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V -All

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\WINDOWS\system32> Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Windows-Subsystem-Linux
Path
Online
               : True
RestartNeeded : False
PS C:\WINDOWS\system32>        <mark>Enable-WindowsOptionalFeature</mark> -Online -FeatureName Microsoft-Hyper-V -All
Path
Online
               : True
RestartNeeded : False
PS C:\WINDOWS\system32>
```

^{*} Some PC may need to restart after running these two steps.

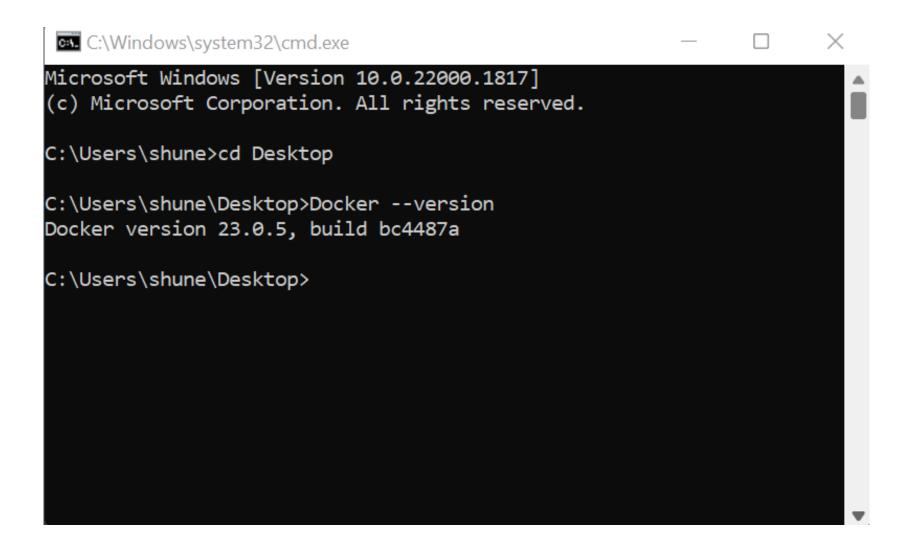
Download NPLAS System from Docker

1. Open Docker on your PC.



If the docker is running on your PC, the color should be green here.

2. Open **cmd** and check Docker using docker --version.



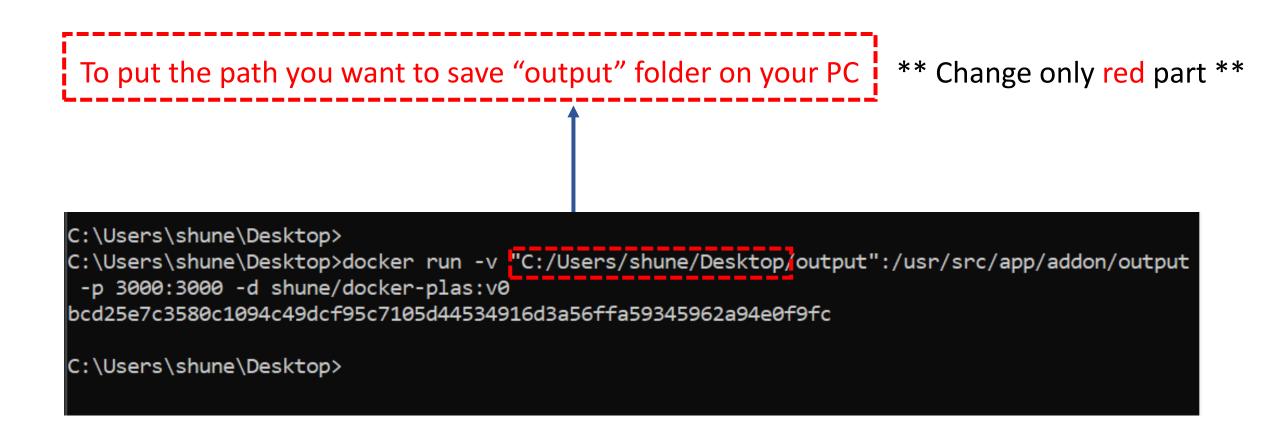
3. To download NPLAS docker image, copy this following command and wait until the downloading finished.

docker pull shune/docker-plas:v0

```
C:\Users\shune\Desktop>docker pull shune/docker-plas:v0
v0: Pulling from shune/docker-plas
Digest: sha256:67fc5b513fccb8bb441dafac39a036d65bb55edee88fa85b783085a896f623a6
Status: Downloaded newer image for shune/docker-plas:v0
docker.io/shune/docker-plas:v0
C:\Users\shune\Desktop>
```

* Please make sure your internet connection can run well. *

4. To run the image for Window OS, type or copy the following command docker run -v "C:/Users/shune/Desktop/output":/usr/src/app/addon/output -p 3000:3000 -d shune/docker-plas:v0



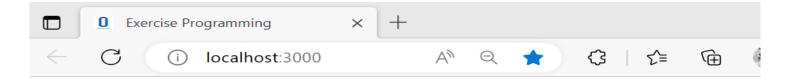
Then, you will see the output folder on your given path.

To run the image for <u>Linux or Mac OS</u>, type docker run -v "\$(pwd)/output":/usr/src/app/addon/output -p 3000:3000 -d shune/docker-plas:v0

```
"pwd" means current directory path
                                               🗾 Desktop 🚽 -zsh — 108×25
soethandara@SoeThandarAung Desktop % docker run -v <mark>"</mark>$(pwd}/output":/usr/src/app/addon/output -p
                                                                                                      3000:3000-d
shune/docker-plas:v0
c68afa41a97e970636b5a939b3f82daee53782f61ba0d3459ce02d9717815c8a
soethandara@SoeThandarAung Desktop %
```

Then, you will see the output folder on your given path.

- 5. Open your browser and type localhost:3000. Then, you will see the PLAS system as follows.
 - * No need internet connection when you solve the NPLAS system using localhost:5000



Programming Learning Assistant System (PLAS)

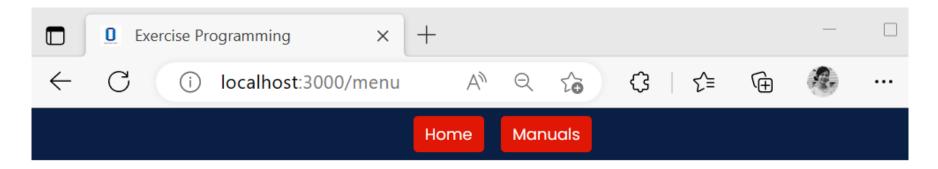
IMPROVE your programming skills







6. Click Exercise Problems for Python Programming.

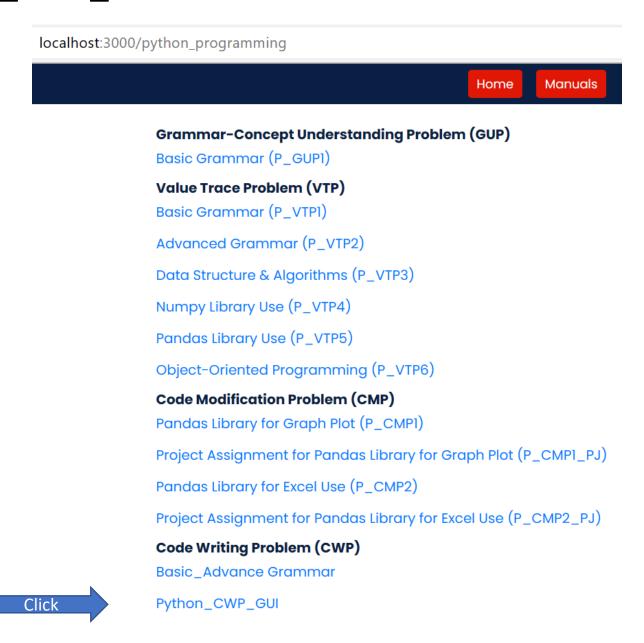




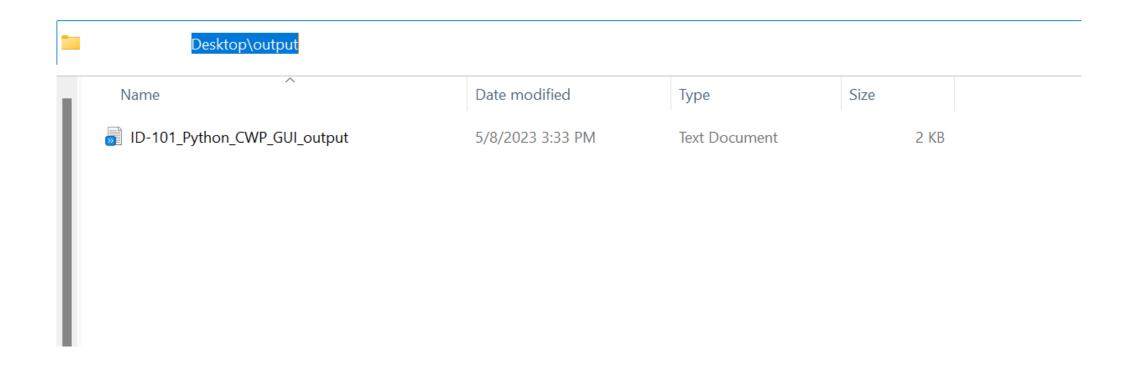




7. Solve the Python_CWP_GUI under CWP.



8. After submitting your problems, all your answer files will be saved on the output folder as follows.



- Don't forget to put your student id or name when you submit your answer if you want to know your score.
- Please send the output folder to this email -> p1kl27uw@s.okayama-u.ac.jp

Please answer the QUESTIONNAIRE from the given link

https://forms.gle/2ZHbXMEbvJ8jyByAA

Thank you for your cooperation.

Your feedback will be helpful to improve our NPLAS system.