

CHANGE LOG

[Version 0.1] – 26/01/2021

- Section 4, 6 and 7: Added new sections for respective Eclipse, Pycharm and Thonny IDE.

[Version 0.2] – 27/01/2021

- Section 14: Clarified the page numbering on check list that needs to be resynched.
- Annexe: Clarified the use of DBeaver.
- FAQ: Removed question 3.

[Version 0.3] – 29/01/2021

- Section 4: Added instruction to configure the interpreter to Python 3 for Eclipse.
- Section 12: Added instruction to copy and paste text from local desktop to virtual desktop.
- Section 14: Inserted screen capture for submission of assignment and zipped file to Canvas.
- Section 2 and Optional: Moved the procedure for copying startlabscript file to bottom and labelled as optional.
- Released for ICT133_JAN21 class.

[Version 0.4] – 01/02/2021

- Section 2: Edited the instructions for using command line to run startlabscript file.
- Section 8: Added instructions to launch Jupyter Notebook application for Python 2 environment.
- Released for ICT233_JAN21 class.

[Version 0.5] – 22/02/2021

- Section 8: Added a new section on Packet Tracer for ICT259.

[Version 0.6] – 23/02/2021

- Section 3: Updated the instructions to configure desktop screen.

[Version 0.7] – 07/03/2021

- Section 2: Changed startlabscript mechanism.
- Section 9: Added a new section to start MongoDB server. This approach is to (1) preserve mongoDB database by storing user data under dbfiles folder (2) resolve the issue when server fails to start.
- Section 13: Updated the method for recording by using LICEcap.
- Section 14: Replaced screenshots using a different folder name, not to be confused with the designated submission folder.
- Section 14: Applied requirement 1 & 2 for ICT233.
- Section 14: Added instruction to check submission in WorkSpace.

- Appendix: Removed section on Copy Startlabscript.
- Appendix: Added information for troubleshooting MongoDB connection.

[Version 0.7b] – 11/05/2021

- Appendix A-4: Updated the command line.
- Appendix A-5: Added new appendix for reconnecting virtual desktop.

[Version 0.8] – 12/05/2021

- Section 13: Updated the method for recording by using Peek.

[Version 0.8b] – 06/07/2021

- Section 11: Added a new section on EASY68K for ICT114.

[Version 0.9c] – 12/01/2022

- Implemented Theia, Jupyter lab container and reorganized the sections.

[Version 0.9e] – 11/03/2022

- Section 1: Added new section for browser requirements and configurations as advised by Vocareum.
- Section 3.1: Added new section to provide steps for copy/paste text from local desktop to Theia.
- Section 3.2: Added new section to create launch.json in Theia IDE for running Flask.
- Section 3.3: Provided steps for viewing or changing the version of the Python Interpreter (if necessary) in Theia IDE.
- Section 5: Remove to configure resolution by command line since remote resizing works well.
- Section 6.4: Updated Point C to refer student to Appendix A-6 for new account registration.
- Section 9: Updated Point G in regards to resubmission.
- Appendix A-5: Provided steps for new account registration via Skills For All.

[Version 0.9f] – 16/03/2022

- Section 6.4.1: Added new section for retrieval of file for lab exercise.

[Version 0.9g] – 24/03/2022

- Section 6.4: Updated the screenshot for Skilsforall login method.

[Version 0.9h] – 29/03/2022

- Appendix A-6: Provided steps for new account registration via Networking Academy.

[Version 1.0] – 28/07/2022

- Section 3 to 3.4 and 6.3: Updated the instructions for the new requirements of ICT239.

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Student User Guide for

Virtual Lab Infrastructure (VLI) Workspace

• + *

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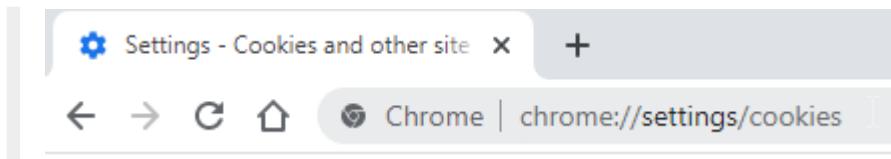
BROWSER REQUIREMENTS AND CONFIGURATIONS

To ensure consistency and the best user experience in web browser when accessing Vocareum Lab, we would recommend students to use [Google Chrome](#) (Click the link to install if it is not available on your computer). As best practice to configure the browser, please follow the configurations below.

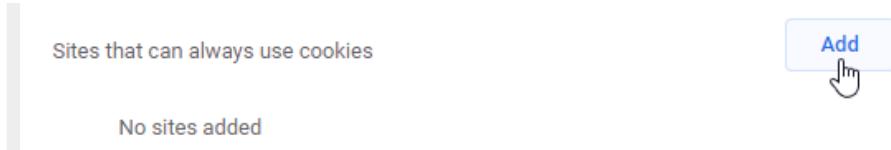
- a. Update the web browser to the latest version.
- b. System Requirements (Please refer [here](#) for the latest information):

- i. Windows
 - 1. Windows 7, Windows 8, Windows 8.1 or Windows 10
 - 2. An Intel Pentium 4 processor or later that's SSE3 capable
 - ii. MAC OS
 - 1. OS X EI Capitan 10.11 or later
 - iii. Linux OS
 - 1. 64 bit Ubuntu 18.04+, Debian 10+, openSUSE 15.2+, or Fedora Linux 32+
 - 2. An Intel Pentium 4 processor or later that's SSE3 capable
- c. Configure browser to allow third-party cookies from Vocareum. The screenshots provided at the time of writing is based on version 102.0.5005.63.

- i. Open Chrome browser.
- ii. On the URL bar, enter **chrome://settings/cookies**



- iii. Scroll down the page until you see this section – **Sites that can always use cookies** and click on the **Add** button.



- iv. In the Add a site box, enter `[.]labs.vocareum.com*` into the Site prompt and check **Including third-party cookies on this site**.

Add a site

Site

[*.]labs.vocareum.com

Including third-party cookies on this site

- v. Click **Add** button to add and the prompt box will close.

Add a site

Site

[*.]labs.vocareum.com

Including third-party cookies on this site

Cancel

Add



- vi. You will notice that your entry is now displayed at this section.

Sites that can always use cookies



[*.]labs.vocareum.com

Including third-party cookies on this site

- vii. Restart your Chrome browser.

2. == LOGIN ACCESS TO VOCAREUM LAB

- a. Go to <https://canvas.suss.edu.sg> and log in to your account.

For User ID, please exclude @suss.edu.sg

User ID

student001

Password

Forgot your Password?

For students and associates,
please contact [MyMail Support](#)

[Log In](#)

For external users, please click [HERE](#)



- b. Navigate to your course site and select **Vocareum Labs** under the Courses menu.

SUSS
SINGAPORE UNIVERSITY
OF SOCIAL SCIENCES

ICT133_JUL21_S01 > ICT133_JUL21_S01: STRUCTURED...

2021_JUL_T1_PT_6

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- c. For first-time users, you will encounter the Vocareum Terms and Conditions, please scroll down to indicate that you agree with the terms and conditions.

- Account
- Dashboard
- Courses
- Calendar
- Inbox
- History
- Help
- SUSS Library
- LS Support

Home Please read the terms and conditions shown below and click on the "I agree" button at the bottom of this page to continue.

People

Syllabus

Vocareum Lab

Virtual Class

Classroom Recordings

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Terms and Conditions

Welcome to the Vocareum, Inc. ("Vocareum") website located at www.vocareum.com (the "Site"). Please read these Terms of Service (the "Terms") and our Privacy Policy (<http://www.vocareum.com/privacy-policy/>) carefully because they govern your use of our Site and our web-based education and learning platform. To make these Terms easier to read, the Site and our platform are collectively called the "Services."

Using the functionality of our Services, teachers can create, customize and administer educational courses and invite students to participate in a class taught and supervised by the teacher using the online tools provided by Vocareum. Subject to your compliance with these Terms, Vocareum will make the Services available to you solely for the purpose of your internal, non-commercial use.

1. Agreement to Terms

By using our Services, you agree to be bound by these Terms. If you don't agree to these Terms, do not use the Services. If you are accessing and using the Services on behalf of an educational institution (such as your employer or the educational institution in which you are enrolled) or other legal entity, you represent and warrant that you have the authority to bind that educational institution or other legal entity to these Terms. In that case, "you" and "your" will refer to that educational institution or other legal entity.

- d. Subsequently, the platform will automatically show the lab that is relevant to your course. To access the lab environment, please click on My Work button.

Vocareum Home My Classes Help

Home

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ICT133JUL22-DEMO

My Grade

ICT133JUL22-DEMO-CS

Details

Submission count:	None
Due date:	None

My Work

The assignment will be graded after submission

Please refer to the respective section that is applicable for your course.

- Section 3 – Access to Cloud IDE
- Section 4 – Access to Jupyter Notebook IDE
- Section 5 – Access to Virtual Desktop
- Section 6 – Virtual Desktop Applications

After reading these sections, move on to **Section 7**.

3. == ACCESS TO CLOUD IDE - MICROSOFT EDITION (if applicable to your course)

- Please wait for the IDE to finish loading. Once it is done, your IDE should look like the sample screenshot below.

SUSS Vocareum Test Site > Vocareum Lab

Home
People
Syllabus
Vocareum Lab
Virtual Class
Classroom Recordings
Past Classroom Recordings
Grades
BigBlueButton
Collaborations
Need Help?
SUSS Gradebook

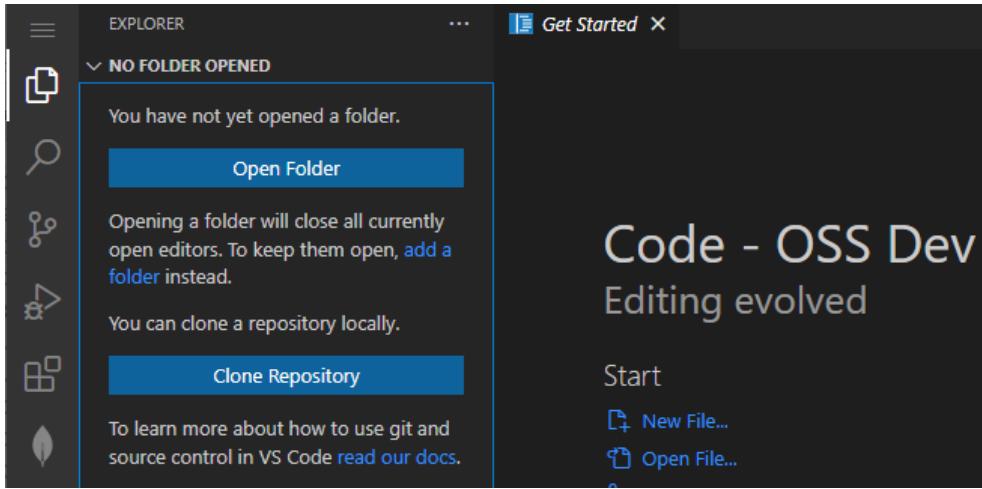
Start
Walkthroughs
Recent
Get started with Python development
Get started with Jupyter Notebooks

- b. Click on Application Menu first, followed by File and click on New Window. This will open the Cloud IDE in a new browser tab.

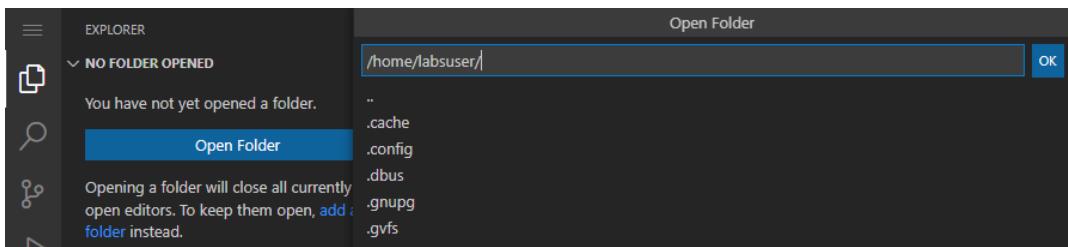
IDE desktop flask_app_browser html_browser Start Lab

File > New Text File Ctrl+K N
Edit > New File... Ctrl+Alt+Windows+N
Selection > **New Window** Ctrl+K Shift+N
View >
Go >
Run >

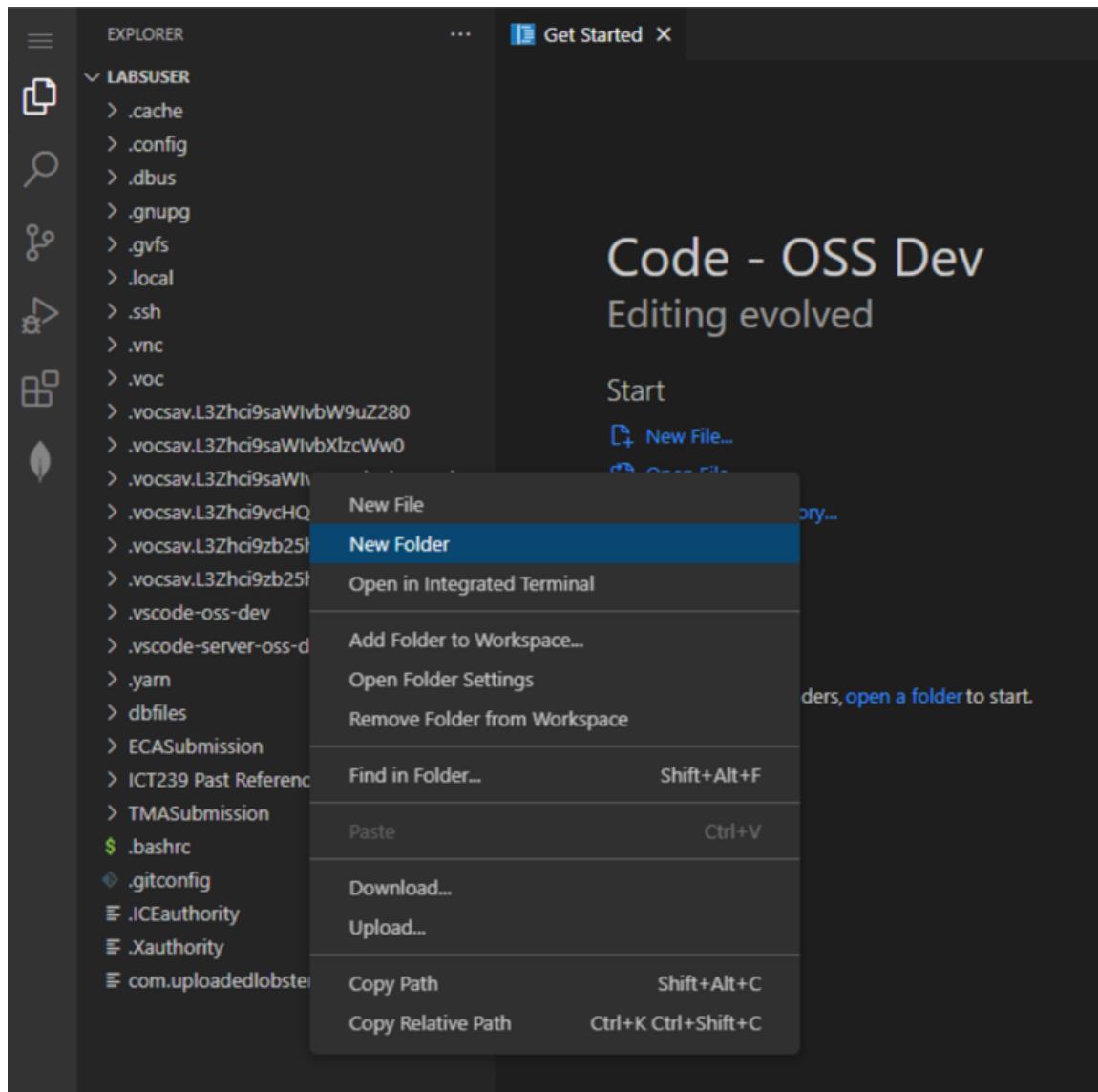
- c. Click on the Explorer icon first then Open Folder button.



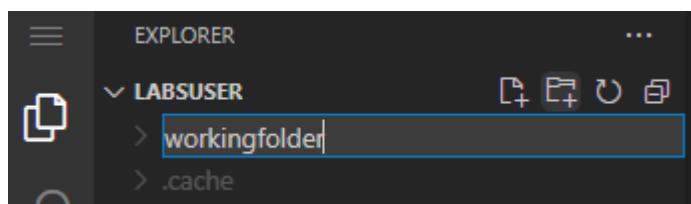
- d. Enter the following directory path (/home/labsuser) into the prompt box and click on the **OK** button. The web browser will load and list the files in the specified directory.



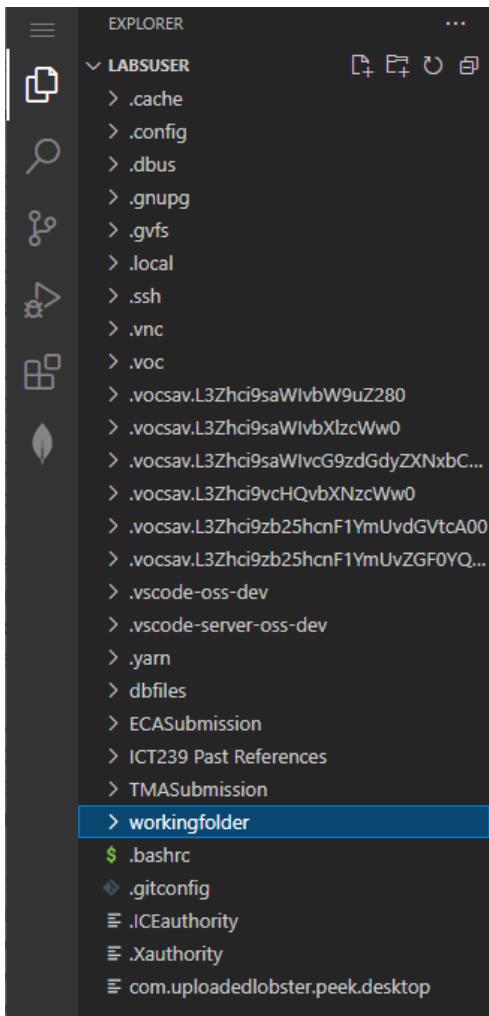
- e. To create a working folder of your own preference, right click at the empty space of the file structure and select **New Folder**.



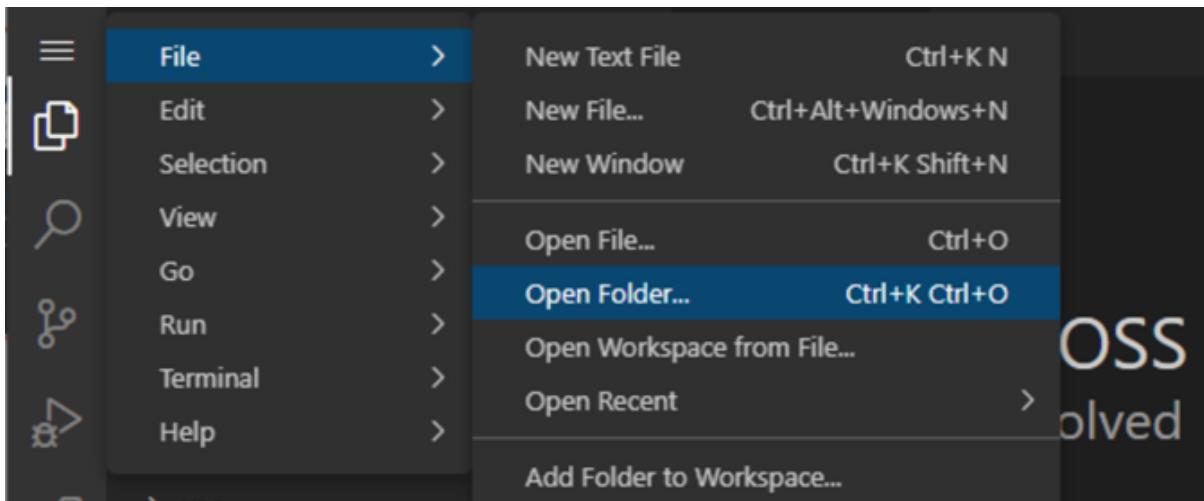
f. Enter the name of the folder of your own preference in the blue box and press Enter on the keyboard to save the change.



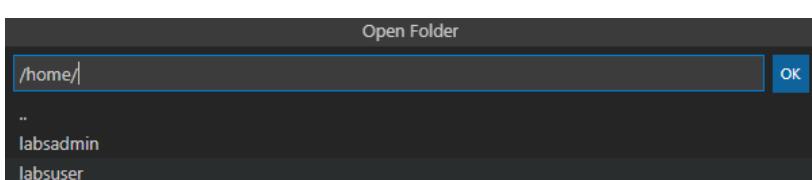
g. The folder that you have just created will be listed under the LABSUSER file tree.

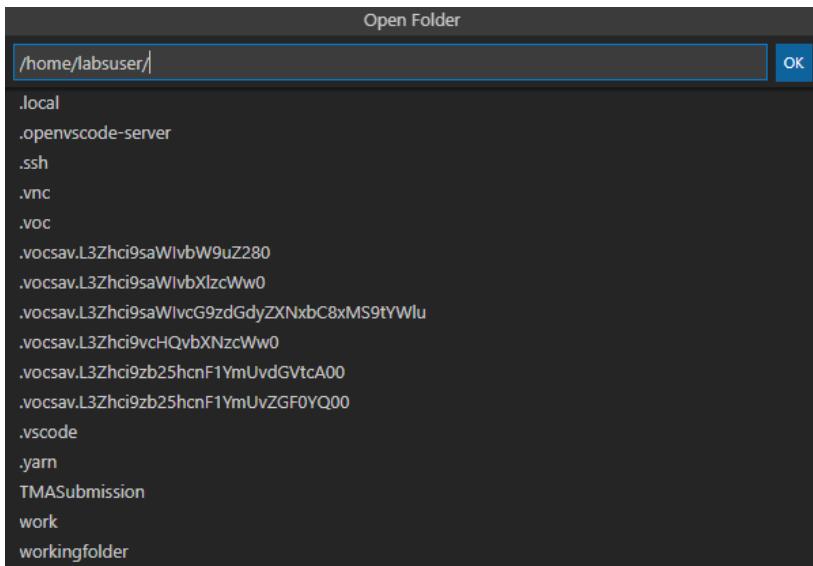


h. Next, click on the Application Menu first, followed by File and then select **Open Folder...**

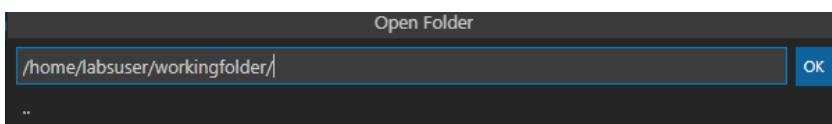


i. In the Open Folder prompt box, please ensure that you click and follow the folder name correctly. The format is /home/labsuser/<your working folder>.

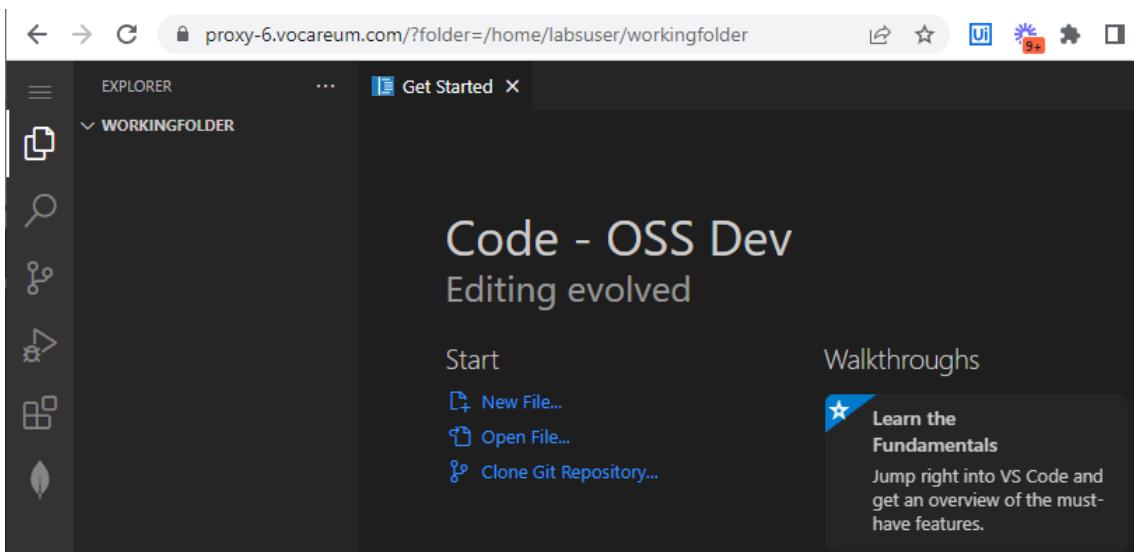




Once the path is correct, click on OK button to proceed.



- j. The browser tab will load your specified folder for your usage. Do note that the file(s) will be saved under this directory: /home/labsuser/<name_of_working_folder>

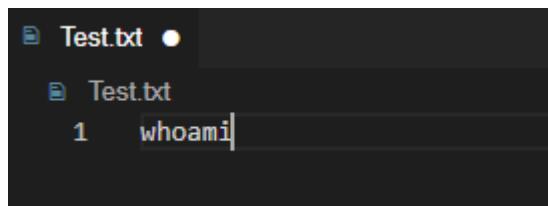


3.1 COPY/PASTE TEXT FROM LOCAL DESKTOP TO IDE

- a. From your local desktop, highlight and copy the text of your preference.

The screenshot shows a browser window with the URL en.wikipedia.org/wiki/Whoami. The page content discusses the 'whoami' command across various operating systems. A note at the top states: "Not to be confused with [Who Am I?](#)". Below this, it says: "In computing, **whoami** is a command found on most Unix-like operating systems, Intel iRMX 86, every Microsoft Windows^[1] operating system since Windows Server 2003, and on ReactOS. It is a concatenation of the words "Who am I?" and prints the effective [username](#) of the current user when invoked."

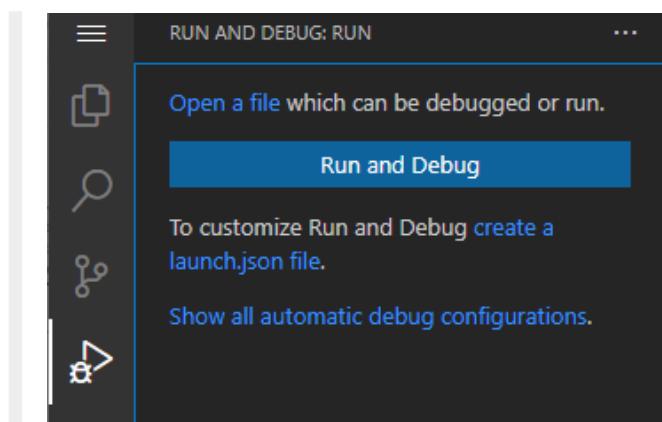
- b. Point the cursor back to IDE. Hold down the Ctrl key and press V on your keyboard to paste the text to be copied.



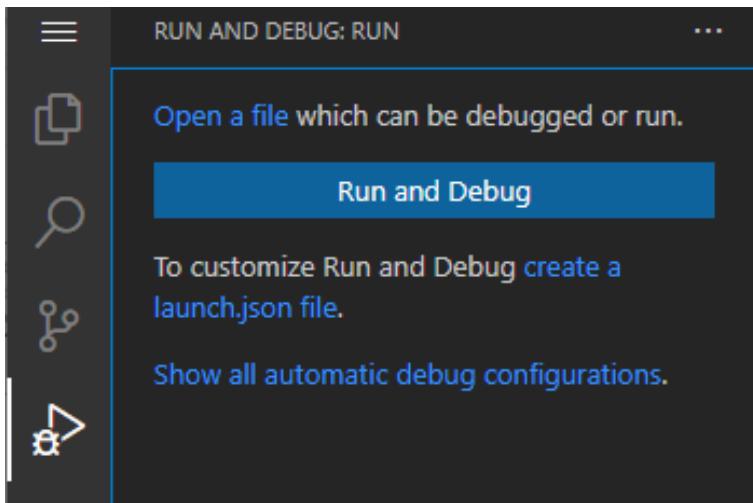
3.2 CREATING LAUNCH.JSON FILE FOR DEBUGGING FLASK APPLICATIONS (if applicable to your course)

Note: This section assumes that you have already opened your folder at the application root level where it contains the app.py file.

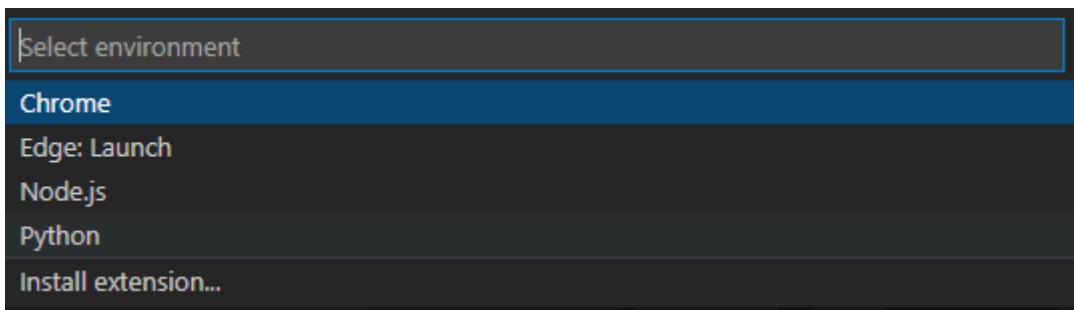
- a. In the IDE left panel, click on the **Run and Debug** button that is highlighted in orange.



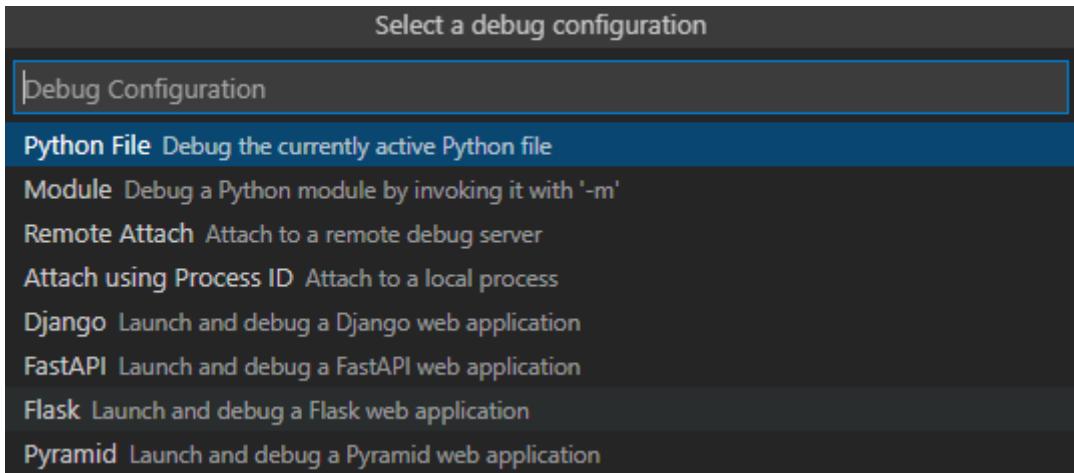
- b. Under the **RUN AND DEBUG** section, please click on **create a launch.json file** link. If there is an existing Python: Flask configuration, please skip step c-g.



c. The IDE will prompt for the environment. Please select **Python**.



d. Under the debug configuration prompt, click Flask.



e. The IDE will automatically open the launch.json configuration and the necessary contents will be populated.

```
1  {
2      // Use IntelliSense to learn about possible
3      // Hover to view descriptions of existing attributes.
4      // For more information, visit: https://go.microsoft.com/fwlink/?linkid=830387
5      "version": "0.2.0",
6      "configurations": [
7          {
8              "name": "Python: Flask",
9              "type": "python",
10             "request": "launch",
11             "module": "flask",
12             "env": {
13                 "FLASK_APP": "app.py",
14                 "FLASK_ENV": "development"
15             },
16             "args": [
17                 "run",
18                 "--no-debugger"
19             ],
20             "jinja": true,
21             "justMyCode": true
22         }
23     ]
24 }
```

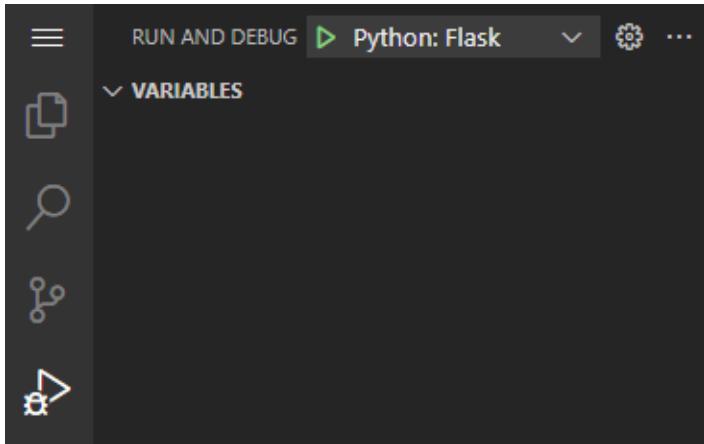
f. Please add the following changes under the env section in the launch.json file.

- i. Please add a comma at the end of the last entry behind the word development
- ii. Please add a new line “FLASK_RUN_HOST”: “0.0.0.0”

```
1  {
2      // Use IntelliSense to learn about possible
3      // Hover to view descriptions of existing attributes.
4      // For more information, visit: https://go.microsoft.com/fwlink/?linkid=830387
5      "version": "0.2.0",
6      "configurations": [
7          {
8              "name": "Python: Flask",
9              "type": "python",
10             "request": "launch",
11             "module": "flask",
12             "env": {
13                 "FLASK_APP": "app.py",
14                 "FLASK_ENV": "development",
15                 "FLASK_RUN_HOST": "0.0.0.0"
16             },
17             "args": [
18                 "run",
19                 "--no-debugger"
20             ],
21             "jinja": true,
22             "justMyCode": true
23         }
24     ]
25 }
```

g. Please save the launch.json file after making the changes.

h. You may now run your flask application in debugging mode by clicking on the green play button.



3.3 LAUNCHING FLASK APP BROWSER (if applicable to your course)

- a. Please run your flask application in IDE first. A sample image shown below.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
labsuser@desktop:~/ICT239 Past References/bmi/app$ flask run --host=0.0.0.0
 * Serving Flask app "app.app"
 * Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
```

- b. On your workspace, you will see that there are several links displayed. Please click on the flask_app_browser link.

Vocareum Test Site > Vocareum Lab

IDE flask_app_browser html_browser desktop

Home

People

Syllabus

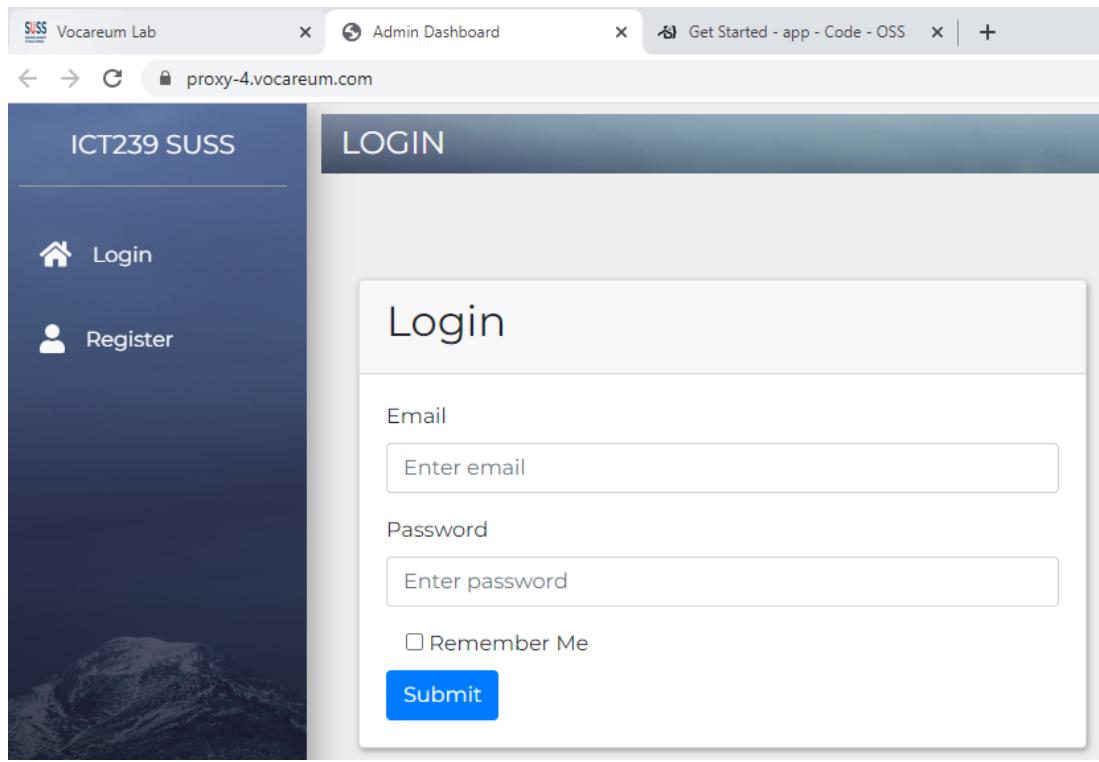
Vocareum Lab

Select file or folder

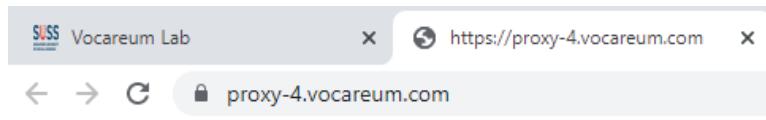
[+] resource

[+] work

- c. A new browser tab will be opened with your flask application. You can then start to interact with your application.



- d. Please note that when you will encounter a “**503 Service Unavailable**” error when you click on the flask_app_browser link without running your flask application.



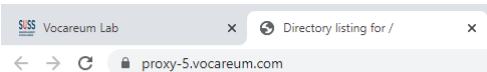
3.4 LAUNCHING HTML BROWSER (if applicable to your course)

- a. Please note that this HTML browser is provided to view the sample codes in the past references folder.
- b. On your workspace, please click on the html_browser link.

A screenshot of the Vocareum Lab interface. At the top, there is a navigation bar with tabs: 'IDE' (green), 'flask_app_browser' (green), 'html_browser' (green), and 'desktop' (blue). Below the navigation bar is a sidebar with links: 'Home', 'People', 'Syllabus', and 'Vocareum Lab'. The 'Vocareum Lab' link is highlighted with a vertical bar. To the right of the sidebar is a file browser window titled 'Select file or folder' with a 'resource' folder selected. The 'work' folder is also visible.

- c. A new browser tab will be opened in another window. Please click on the **ICT239 Past**

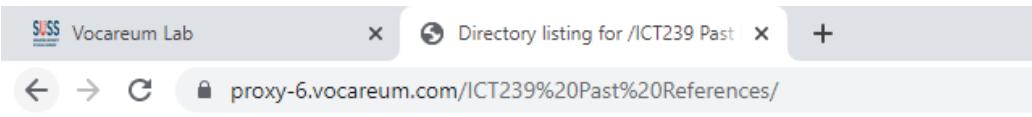
References link as this is the folder that contains all the reference codes.



Directory listing for /

- [.bashrc](#)
- [.cache/](#)
- [.config/](#)
- [.dbus/](#)
- [.gitconfig](#)
- [.gnupg/](#)
- [.gvfs/](#)
- [.ICEAuthority](#)
- [.local/](#)
- [.ssh/](#)
- [.vnc/](#)
- [.voc/](#)
- [.vocsavL3Zhc9saW1vbW9uZ780/](#)
- [.vocsavL3Zhc9saW1vbXlzcWw0/](#)
- [.vocsavL3Zhc9saW1vcG9zdGdyZXNxbC8xMS9tYWlu/](#)
- [.vocsavL3Zhc9vcHQvbXNzcWw0/](#)
- [.vocsavL3Zhc9zb25hcF1YmUvGvtcA00/](#)
- [.vocsavL3Zhc9zb25hcF1YmUvZGF0YQ00/](#)
- [.Xauthority](#)
- [.yarn/](#)
- [.com_uploadedlobster.peek.desktop](#)
- [.dbfiles/](#)
- [ECASubmission/](#)
- [ICT239 Past References/](#)
- [TMASubmission/](#)
- [workingfolder/](#)

d. To view the sample codes, simply navigate to the folder that you wish to view the codes.



Directory listing for /ICT239 Past References/

- [bmi/](#)
- [SU1/](#)
- [SU2/](#)
- [SU3/](#)
- [SU4/](#)
- [SU5/](#)
- [SU6/](#)

SUSS Vocareum Lab Directory listing for /ICT239 Past

proxy-6.vocareum.com/ICT239%20Past%20References/SU2/Code/

Directory listing for /ICT239 Past References/SU2/Code/

- [frog/](#)
- [image-linux.png](#)
- [SampleAudio_0.4mb.mp3](#)
- [SampleVideo_360x240_1mb.mp4](#)
- [style.css](#)
- [SU2-C2-T2-1A A HTML Element.html](#)
- [SU2-C2-T2-1B Nesting elements.html](#)
- [SU2-C2-T2-1C Empty elements.html](#)
- [SU2-C2-T2-1D Element attributes.html](#)
- [SU2-C2-T2-1E Boolean attributes.html](#)
- [SU2-C2-T2-2A A HTML Document.html](#)
- [SU2-C2-T2-2B Special Characters.html](#)
- [SU2-C2-T2-2C HTML comments.html](#)
- [SU2-C2-T2-3A Head Metadata.html](#)
- [SU2-C2-T2-3C link CSS and JS example.html](#)
- [SU2-C2-T2-4A Text Para and Headings.html](#)
- [SU2-C2-T2-4B Text List.html](#)
- [SU2-C2-T2-4C other Semantic tags.html](#)
- [SU2-C2-T2-4C Quotation.html](#)

e. Please take note that if you have made any changes to the html files, please refresh your web browser to view the latest changes.

4. == ACCESS TO JUPYTERLAB IDE (if applicable to your course)

a. Please click on the My Work button to access the JUPYTERLAB IDE.

ICT233_JAN22_T03 > ICT233_JAN22_T03: DATA PROGRA...

Vocareum

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ICT233_JAN22_L01: DATA PROGRAMMING

My Grade

ICT233_JAN22_L01: DATA PROGRAMMING

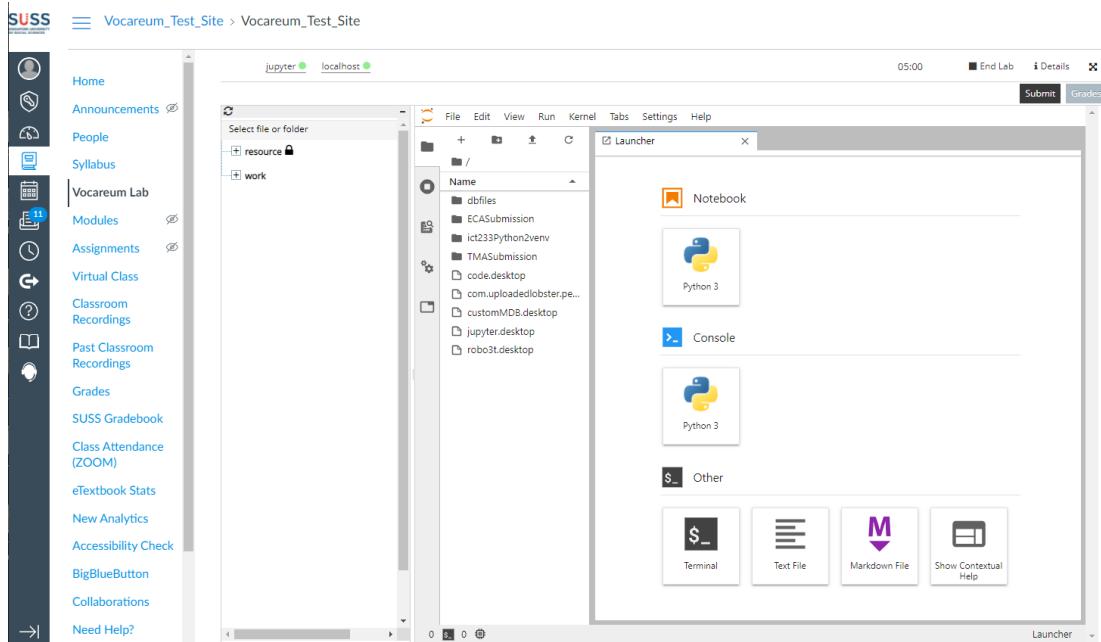
Details

Submission count:	None
Due date:	Mar 14 2022 23:55:59 +08

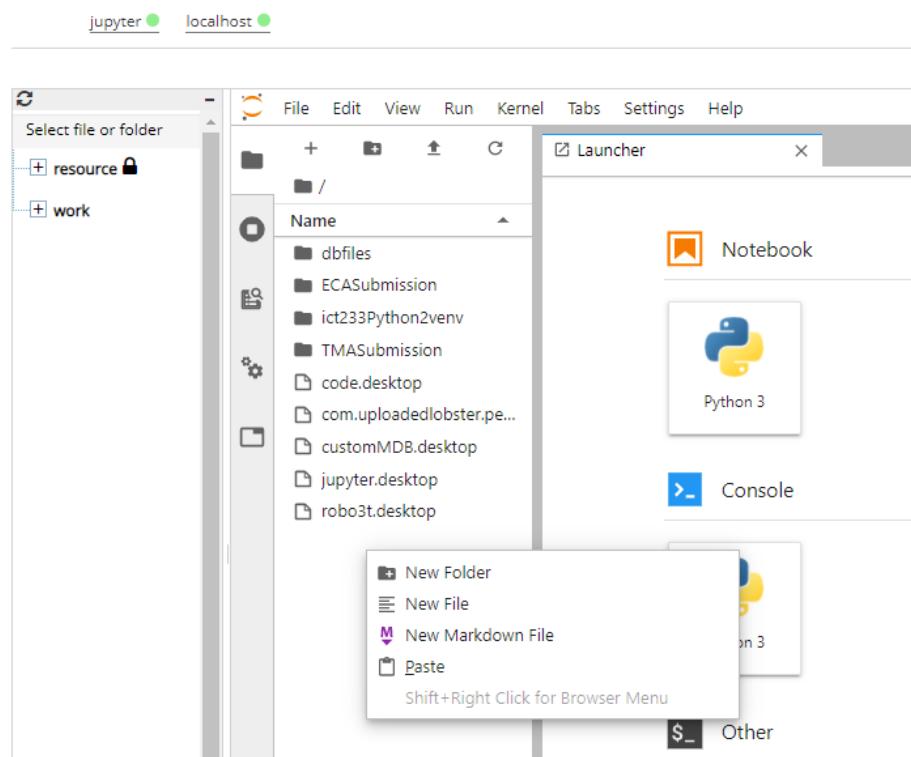
My Work

The assignment will be graded after submission

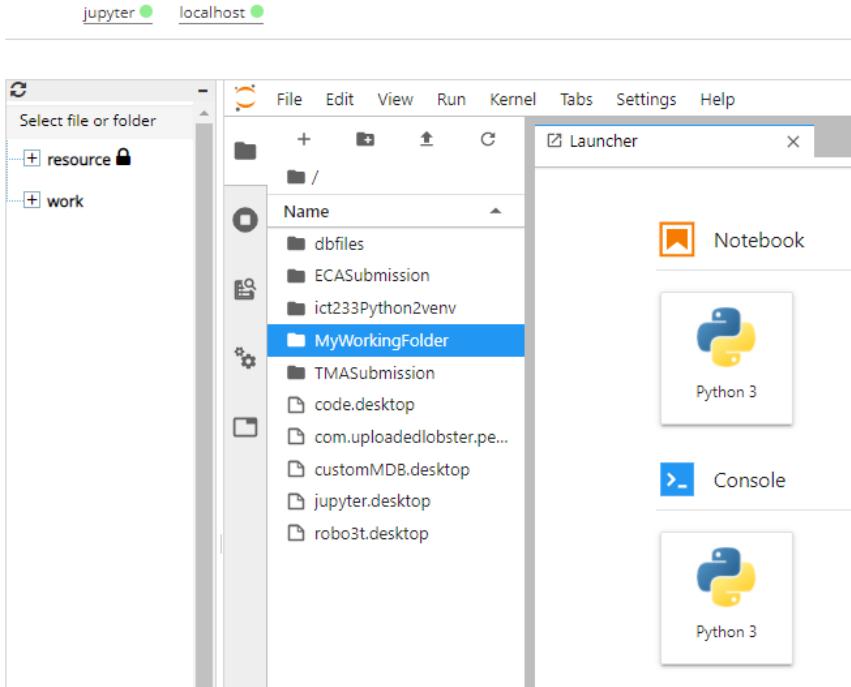
b. Please wait for the IDE to finish loading. Once it is done, your IDE should look like the sample screenshot below.



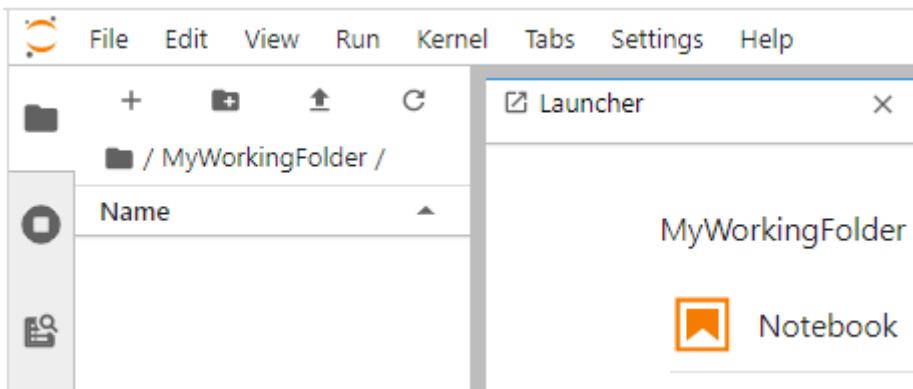
- c. To create a working folder, right click on the file structure and select **New Folder**. Then name the **New Folder** of your preference.



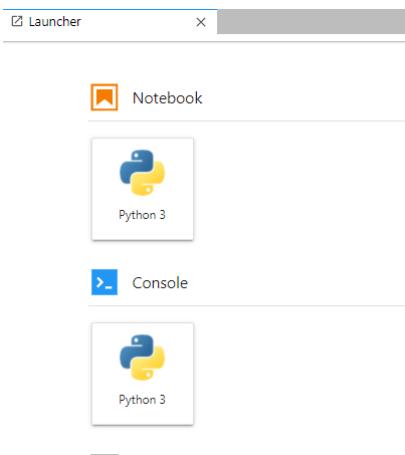
- d. To create a new notebook under the new folder, double click on that folder.



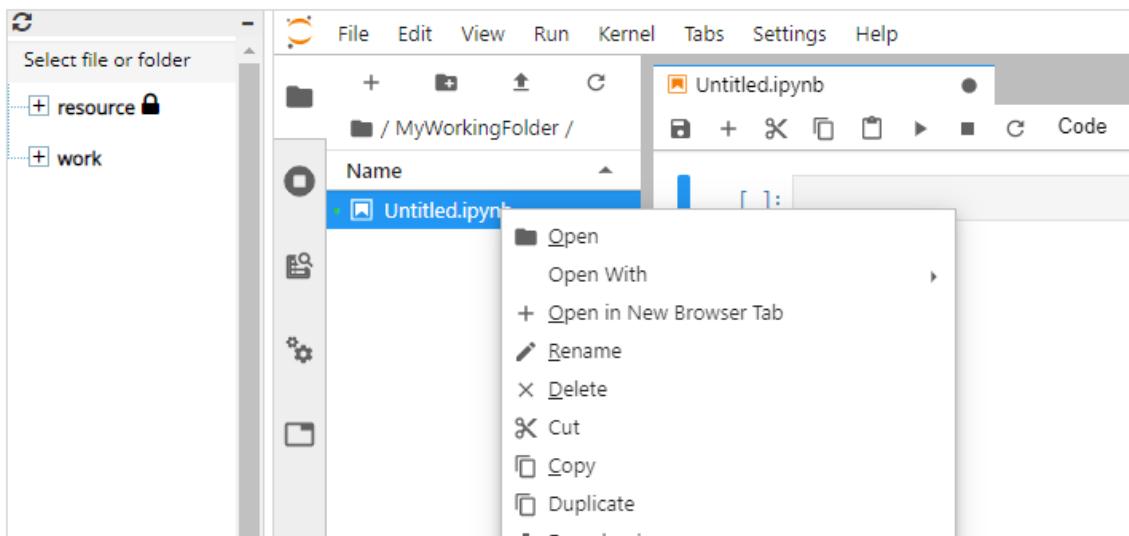
e. After clicking, do note that the directory has changed to the new folder.



f. Click on the Python 3 button under Notebook.



g. You may rename the new ipynb file by right click and **Rename** it. (You may start to use).



5. == ACCESS TO VIRTUAL DESKTOP

- Click on **desktop** link in the Workspace as pointed to by arrow below. This action will launch the Virtual Desktop. If you do not see the Virtual Desktop launched due to being blocked by pop-up blocker, please allow the pop-up blocker to open a new window/tab from Vocareum.

SUSS SINGAPORE UNIVERSITY OF SOCIAL SCIENCES

Vocareum_Test_Site > Vocareum Lab

IDE ● **desktop** ●

New ● **Upload** ● **Copy** ● **Download**

work/

- resource ●
 - + lib
 - + asnlib
 - + scripts
 - + startercode

Home

People

Syllabus

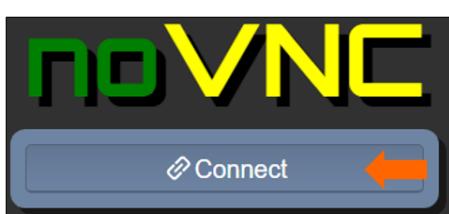
Vocareum Lab

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- You will see a separate browser tab with a noVNC logo. Next, click on **Connect** button to connect to Virtual Desktop.



- c. Once upon accessing Virtual Desktop for the first time, system will generate the following shortcuts on your desktop automatically. **(No action is required from student for creating these shortcuts)**

1. Pre-installed applications and libraries for your course.^[1]
2. Specific folders where you begin working your solution for graded assignments.
3. Folder containing references from past references. (If applicable for your course)

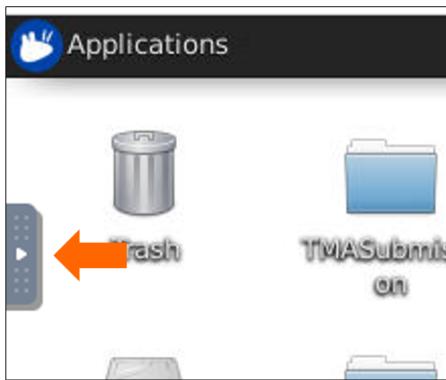


The icons may appear over a short period, once an icon appears, it is ready for the users to use that software.

5.1 CONFIGURATION OF VIRTUAL DESKTOP SCREEN

You can adjust the screen to a higher resolution by the following steps:

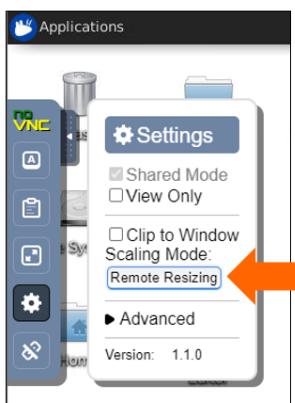
- a. Click the bar with an arrow to toggle the noVNC control panel.



b. Click the Settings icon on the noVNC control panel.



c. Select Remote Resizing under Scaling Mode option. This option will allow the desktop to fit into any custom sizing of the web browser.



d. Once this setting is done, you can drag and pull the browser frame.



e. You can also enter the full screen mode by clicking on the Fullscreen icon.

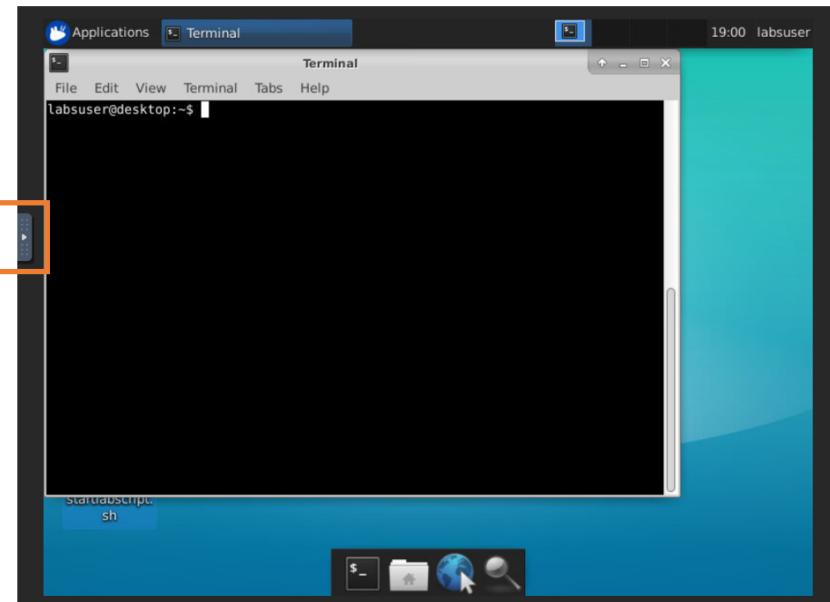


5.2 COPY/PASTE TEXT FROM LOCAL DESKTOP TO VIRTUAL DESKTOP

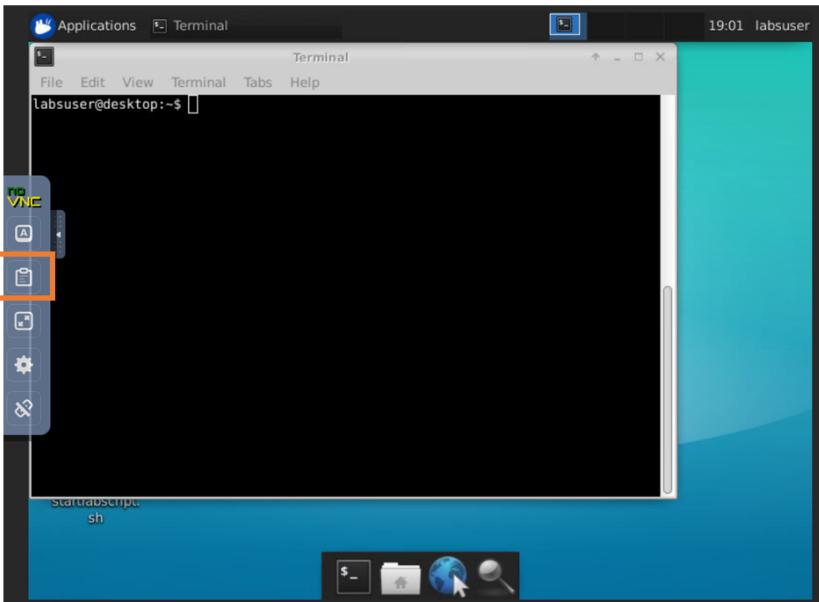
- From your local desktop, highlight and copy the text of your preference.

The screenshot shows a web browser window displaying the Wikipedia article for the command "whoami". The page content includes a note about not being confused with "Who Am I?", a brief history of the command's existence across various operating systems, and its function as a concatenation of "Who am I?" and the current user's username. The URL in the address bar is en.wikipedia.org/wiki/Whoami.

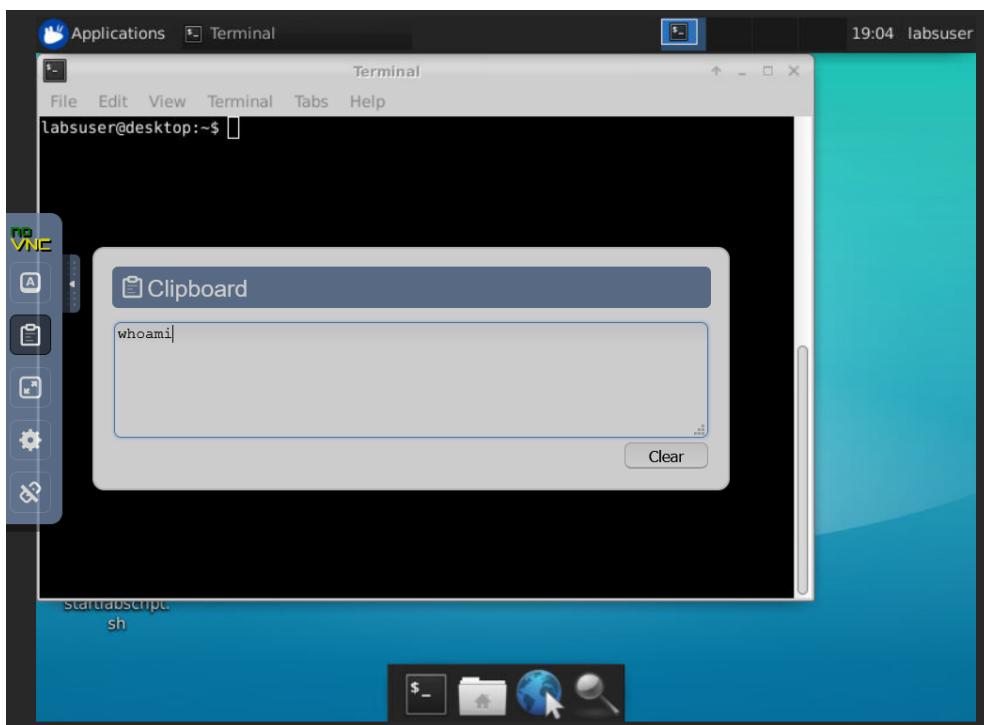
- Navigate to your virtual desktop and click the bar with an arrow to toggle the noVNC control panel.



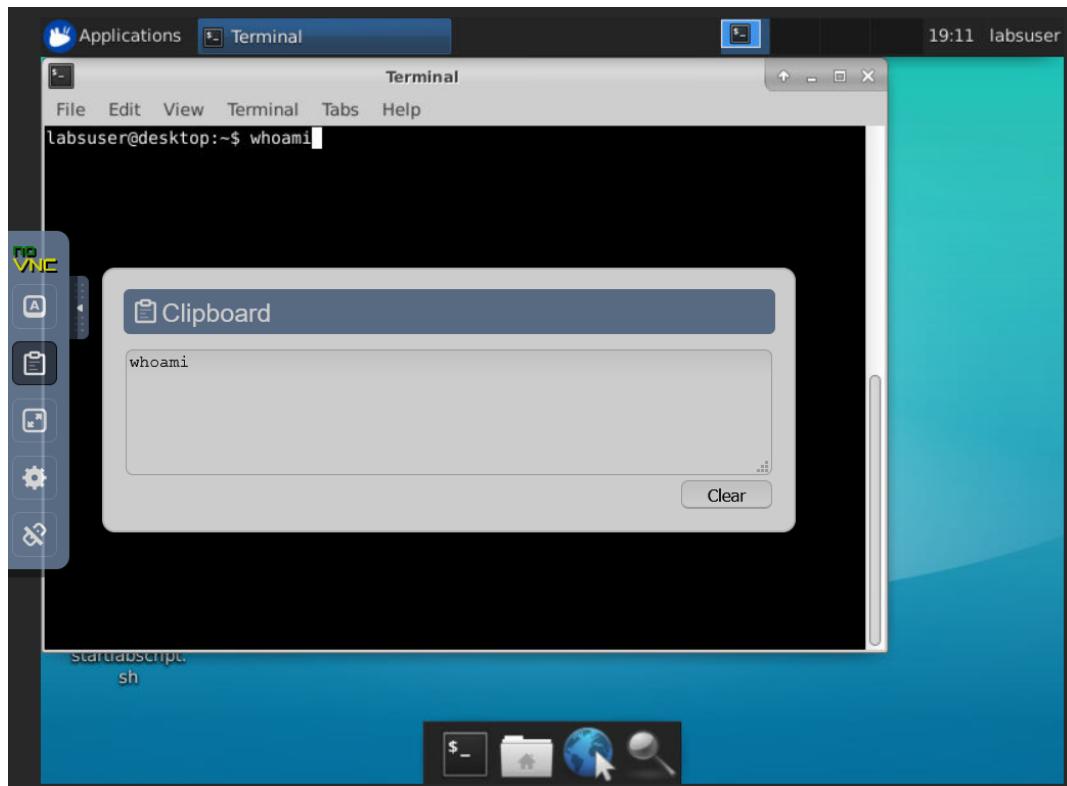
- Click the **Clipboard** icon on the noVNC control panel.



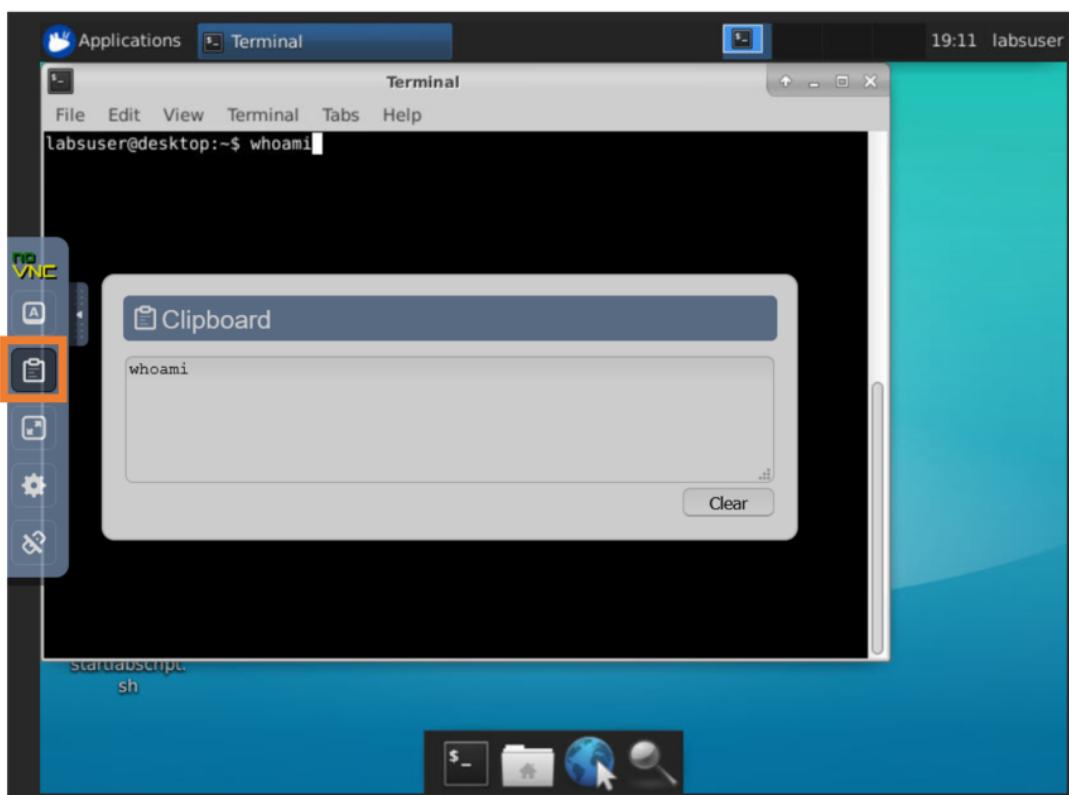
- d. Paste the text to be copied on the Clipboard.



- e. Hold Ctrl and then press V on your keyboard to paste the text to be copied. You can also do a right click on your mouse and paste that text.



f. Click the **Clipboard** icon on the noVNC control panel to close the Clipboard.

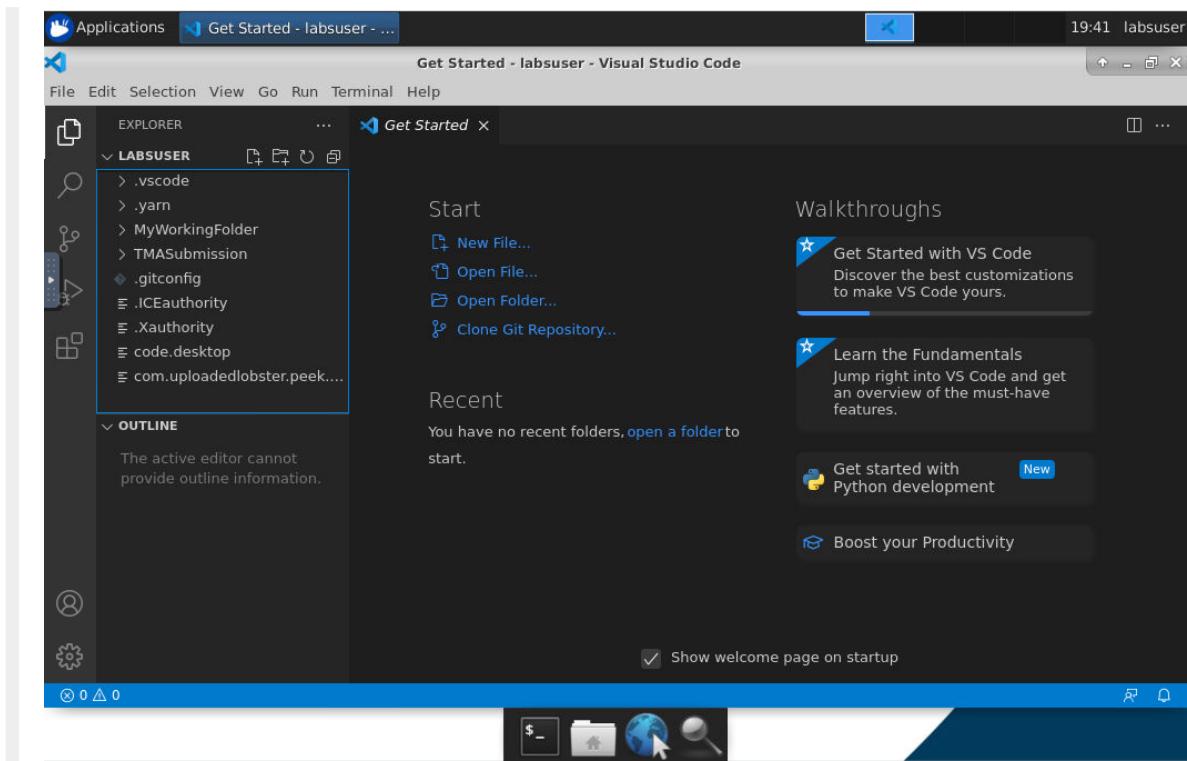


6. == VIRTUAL DESKTOP APPLICATIONS

1. == VISUAL STUDIO CODE (if applicable to your course)
2. Click on **Visual Studio Code** shortcut located on the desktop.



b. The application displayed will be the same as screenshot below.



JUPYTER NOTEBOOK FOR PYTHON 2 (if applicable to your course)

a. Click on **Python 2 Jupyter Notebook** shortcut located on the desktop.

Note 1: To run application that uses Python 2 virtual environment, please select and click the **Python 2 Jupyter Notebook** shortcut instead. An example of application that uses Python 2 virtual environment is d3py library.



```
File Edit View Terminal Tabs Help
labsuser@student-desktop:~$ jupyter notebook
[I 10:25:00.465 NotebookApp] Serving notebooks from local directory: /home/labsuser
[I 10:25:00.465 NotebookApp] Jupyter Notebook 6.1.4 is running at:
[I 10:25:00.466 NotebookApp] http://localhost:8888/?token=f4420d43486a3490d6bd1aac822d1ced7b434dfdf0a58617
[I 10:25:00.466 NotebookApp] or http://127.0.0.1:8888/?token=f4420d43486a3490d6bd1aac822d1ced7b434dfdf0a58617
[I 10:25:00.466 NotebookApp] Use Control-C to stop this server and shut down
all kernels (twice to skip confirmation).
[C 10:25:00.504 NotebookApp]

      To access the notebook, open this file in a browser:
      file:///home/labsuser/.local/share/jupyter/runtime/nbsrvr-1416-open.html
      Or copy and paste one of these URLs:
      http://localhost:8888/?token=f4420d43486a3490d6bd1aac822d1ced7b434dfdf0a58617
      or http://127.0.0.1:8888/?token=f4420d43486a3490d6bd1aac822d1ced7b434dfdf0a58617
```

Warning: Do NOT close this Terminal screen as it is required to run Jupyter Notebook. Please keep it minimised.

- b. The application displayed will be the same as screenshot below.

Select items to perform actions on them.

	Name	Last Modified	File size
<input type="checkbox"/>	ECASubmission	6 days ago	
<input type="checkbox"/>	eclipse-workspace	6 days ago	
<input type="checkbox"/>	ICT233 Past References	4 days ago	
<input type="checkbox"/>	jenkins	18 minutes ago	
<input type="checkbox"/>	TMASubmission	6 days ago	
<input type="checkbox"/>	eclipse.desktop	3 days ago	172 B
<input type="checkbox"/>	startlabscript.sh	6 days ago	2.02 kB

- c. To exit from this application after you have finished using it, click on **Quit** button.^[2]

Select items to perform actions on them.

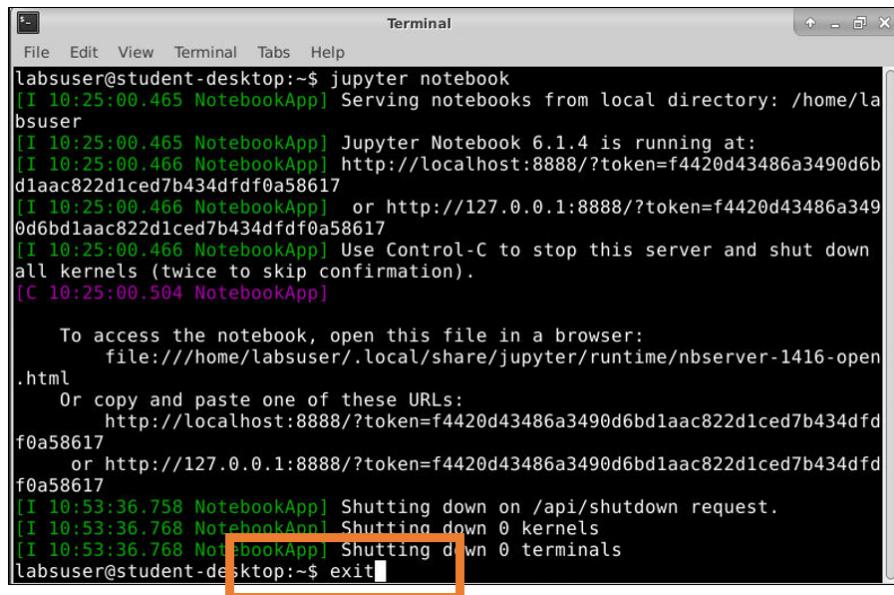
	Name	Last Modified	File size
<input type="checkbox"/>	ECASubmission	6 days ago	
<input type="checkbox"/>	eclipse-workspace	6 days ago	
<input type="checkbox"/>	ICT233 Past References	4 days ago	
<input type="checkbox"/>	jenkins	18 minutes ago	
<input type="checkbox"/>	TMASubmission	6 days ago	
<input type="checkbox"/>	eclipse.desktop	3 days ago	172 B
<input type="checkbox"/>	startlabscript.sh	6 days ago	2.02 kB

- d. A shut down message will be prompted. Then, click the **cross** to end this message.

Server stopped

You have shut down Jupyter. You can now close this tab.
To use Jupyter again, you will need to relaunch it.

- e. Switch to Terminal Emulator and enter **exit** into the command line to close the Terminal.

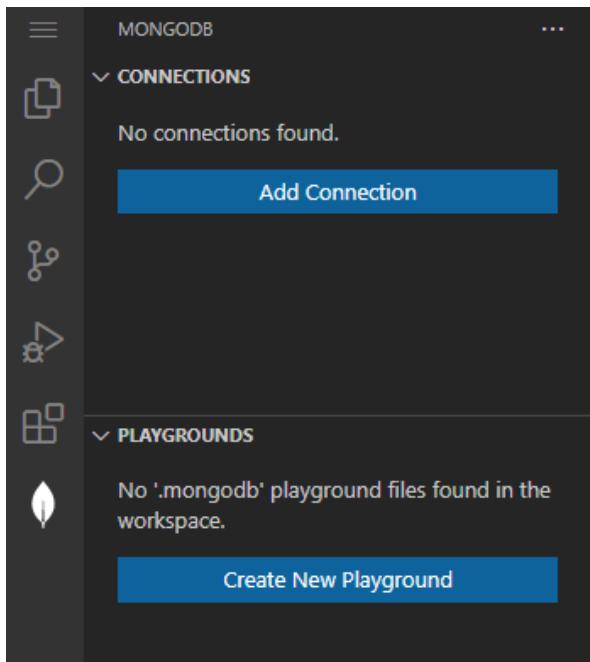


```
Terminal
File Edit View Terminal Tabs Help
labsuser@student-desktop:~$ jupyter notebook
[I 10:25:00.465 NotebookApp] Serving notebooks from local directory: /home/labsuser
[I 10:25:00.465 NotebookApp] Jupyter Notebook 6.1.4 is running at:
[I 10:25:00.466 NotebookApp] http://localhost:8888/?token=f4420d43486a3490d6bd1aac822d1ced7b434dfdf0a58617
[I 10:25:00.466 NotebookApp] or http://127.0.0.1:8888/?token=f4420d43486a3490d6bd1aac822d1ced7b434dfdf0a58617
[I 10:25:00.466 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 10:25:00.504 NotebookApp]

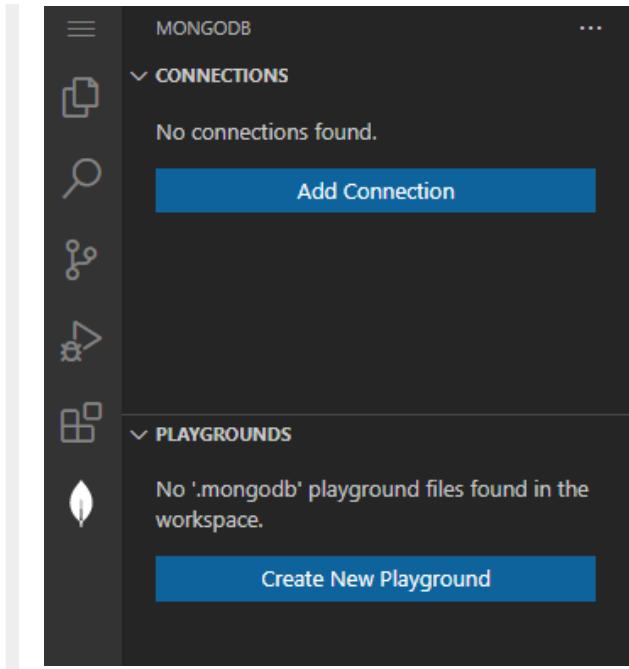
    To access the notebook, open this file in a browser:
        file:///home/labsuser/.local/share/jupyter/runtime/nbserver-1416-open.html
    Or copy and paste one of these URLs:
        http://localhost:8888/?token=f4420d43486a3490d6bd1aac822d1ced7b434dfdf0a58617
        or http://127.0.0.1:8888/?token=f4420d43486a3490d6bd1aac822d1ced7b434dfdf0a58617
[I 10:53:36.758 NotebookApp] Shutting down on /api/shutdown request.
[I 10:53:36.768 NotebookApp] Shutting down 0 kernels
[I 10:53:36.768 NotebookApp] Shutting down 0 terminals
labsuser@student-desktop:~$ exit
```

CREATING MONGODB CONNECTION (if applicable to your course)

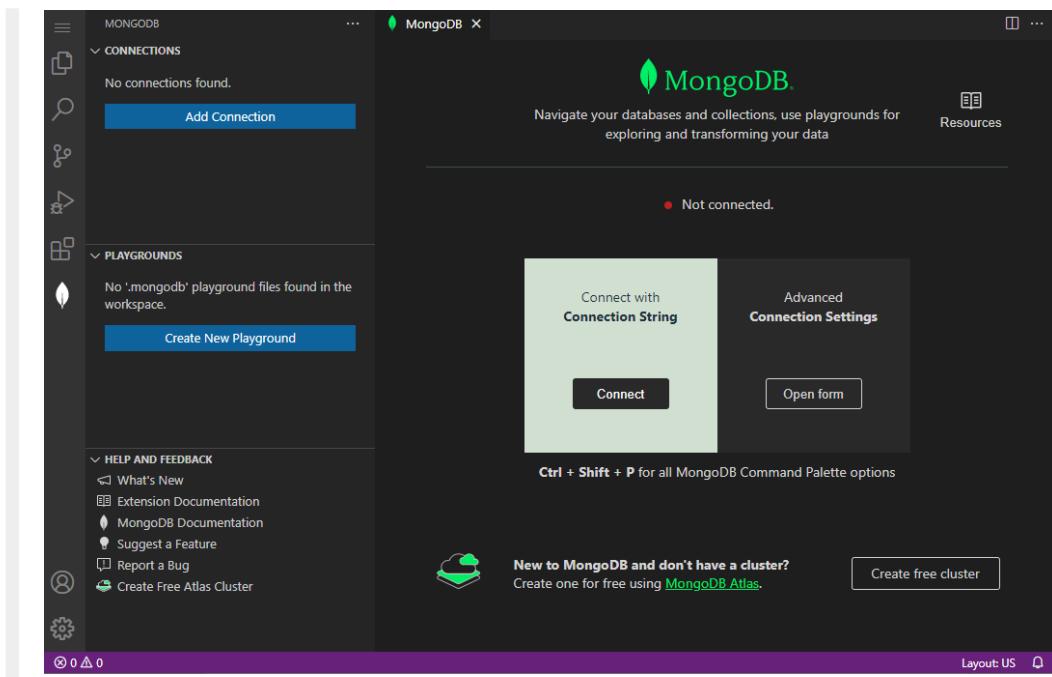
- In IDE, click on the MongoDB icon on the left menu.



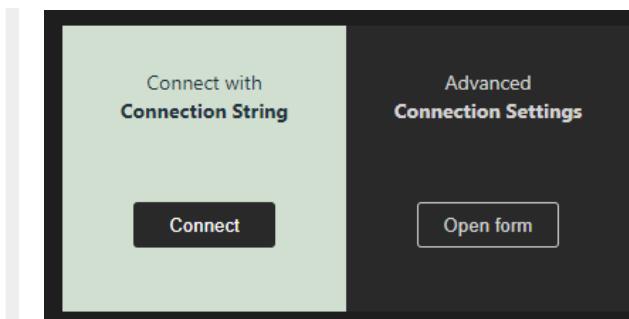
- Click on the Add Connection button.



c. The MongoDB page will be shown.



d. Click on the **Connect** button.



e. A prompt box will appear to ask for the database connection string.

```
e.g. mongodb+srv://username:password@cluster0.mongodb.net/admin  
Enter your connection string (SRV or standard) (Press 'Enter' to confirm or 'Escape' to cancel)
```

- f. Enter **mongodb://localhost:27017** into the prompt box and press **Enter** to continue.

```
mongodb://localhost:27017  
Enter your connection string (SRV or standard) (Press 'Enter' to confirm or 'Escape' to cancel)
```

- g. Once it is successfully connected, you will be able to view this notification message at the bottom right corner of the screen.

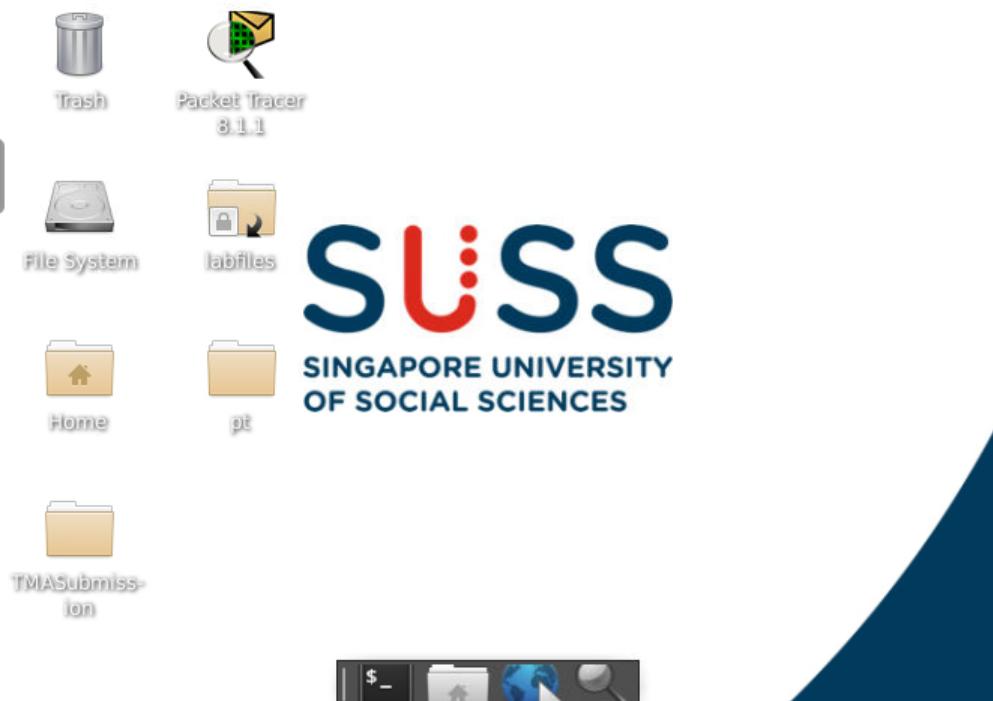
```
 ⓘ MongoDB connection successful.
```

- h. On the mongoDB page, it will show that it is successfully connected to the database as well.

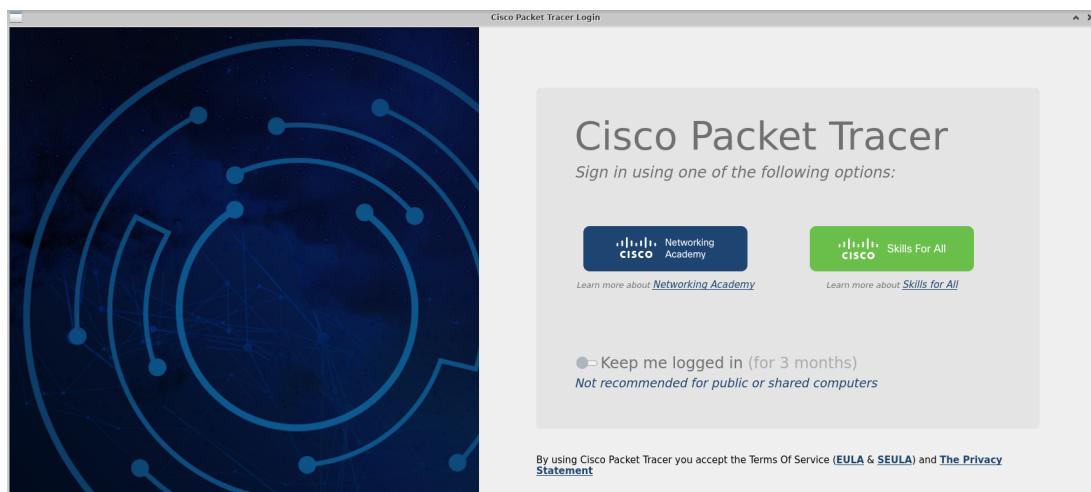


CISCO PACKET TRACER (if applicable to your course)

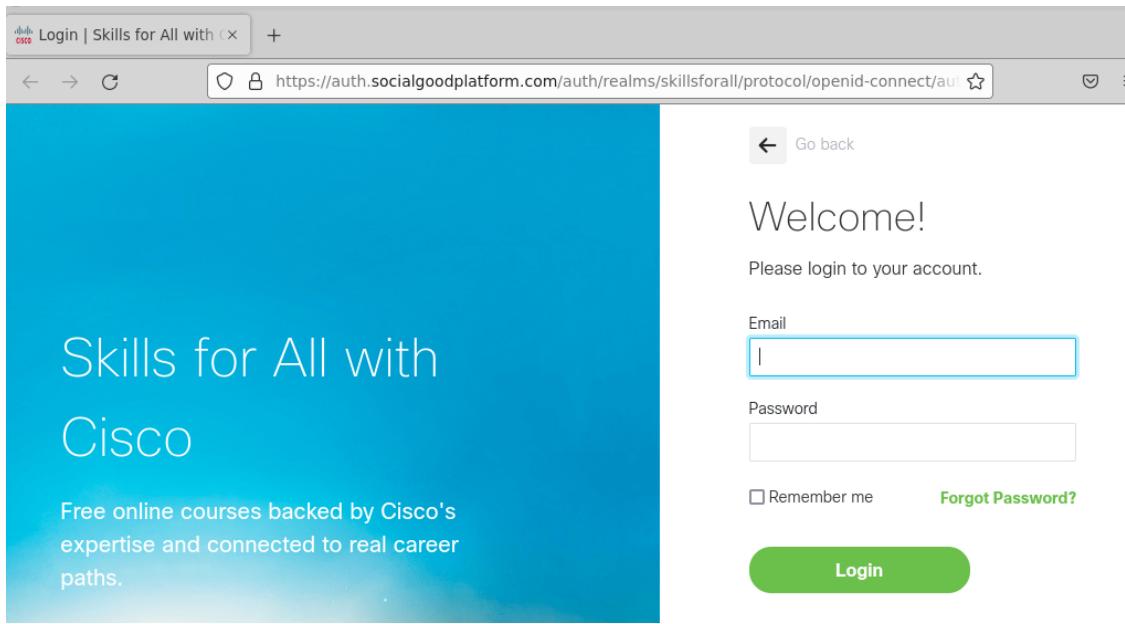
- a. Click on **Cisco Packet Tracer** shortcut located on the desktop.



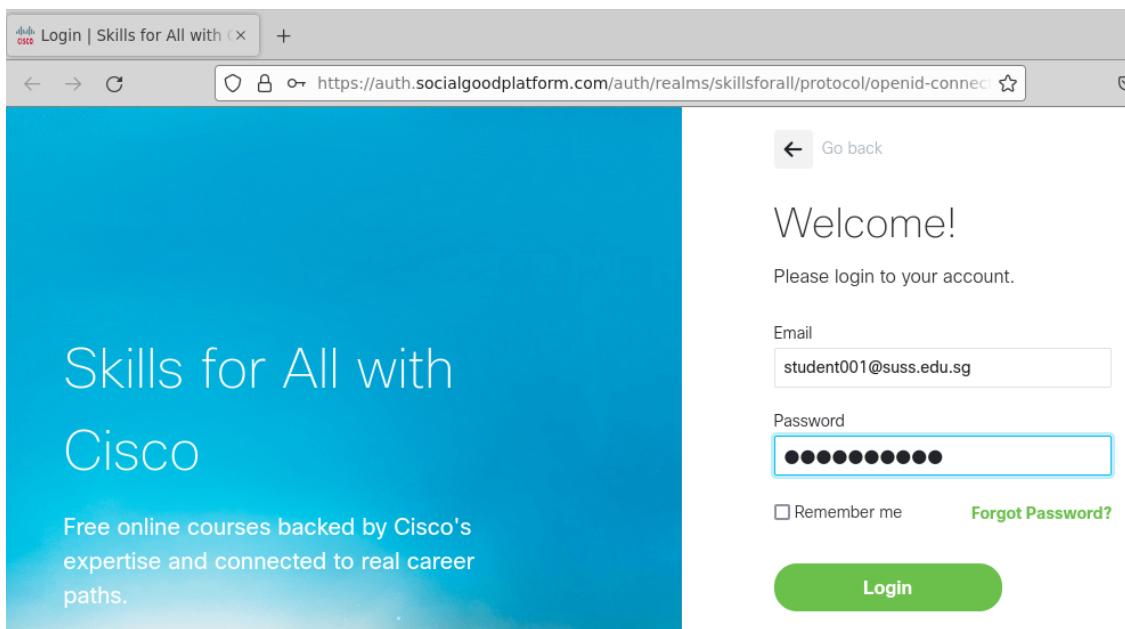
- b. If you have not registered an account with Cisco Skills For All, please refer to [Appendix A-5](#) for instructions. Otherwise, you may proceed to login with your credentials by clicking the **Skills For All** button on the right.
- For those who choose to register with Networking Academy^[3], please click the **Networking Academy** button on the left.



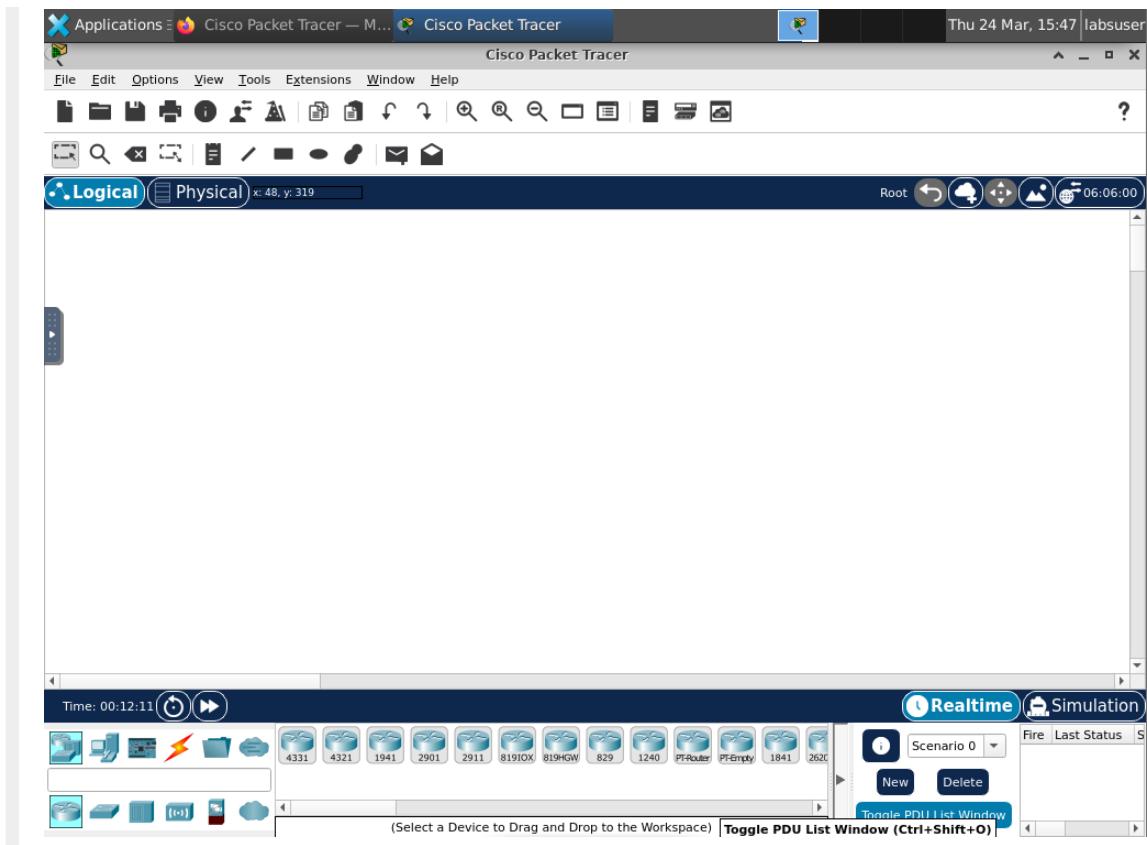
- c. Once the login page is launched in a web browser, enter your **Email** and **Password**.



- d. Click on the **Login** button.



- e. The application displayed will be the same as the screenshot below.

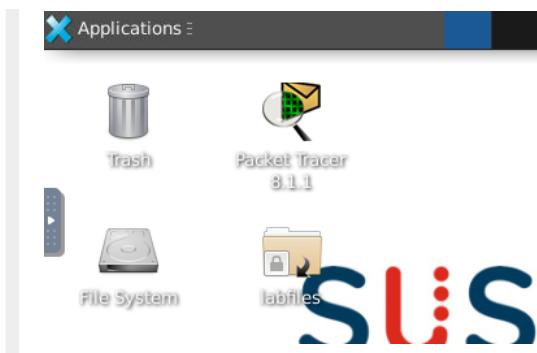


6.4.1 RETRIEVE FILE FOR LAB EXERCISE

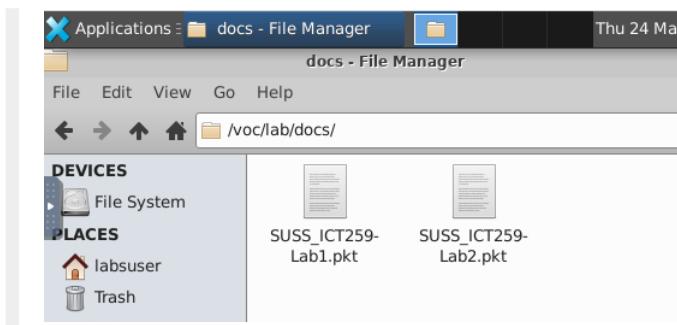
- A shortcut link to a directory^[4] where the lab files are stored, has been placed on your desktop just like the screenshot below. You can double click **labfiles** link to read those lab files. If you do not have the shortcut link, please follow Step B to E to create it.



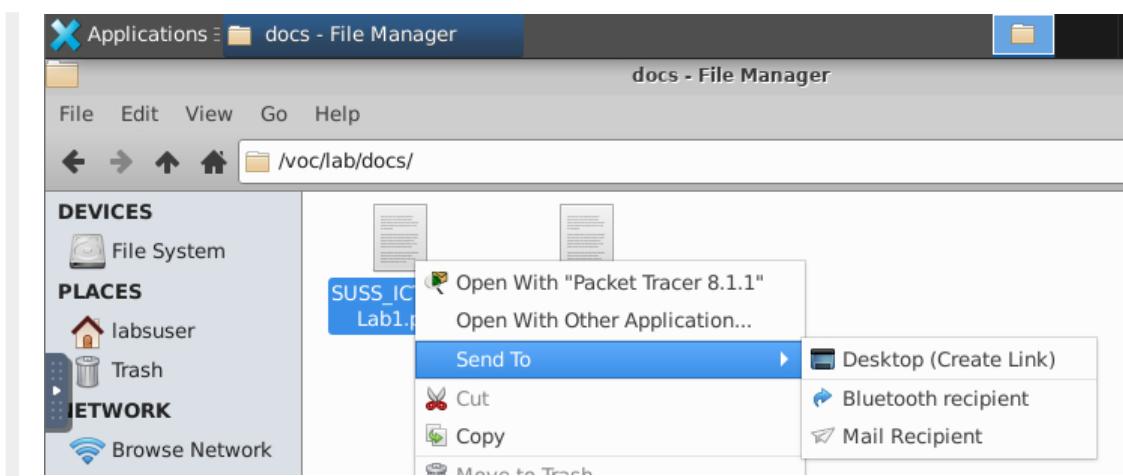
- Double click File System Folder.



c. Go to docs subfolder by entering this path: /voc/lab/docs/



d. Right click the lab file and select Desktop (Create Link) under Send To option.



e. A shortcut link will be placed on the desktop just like the screenshot below.

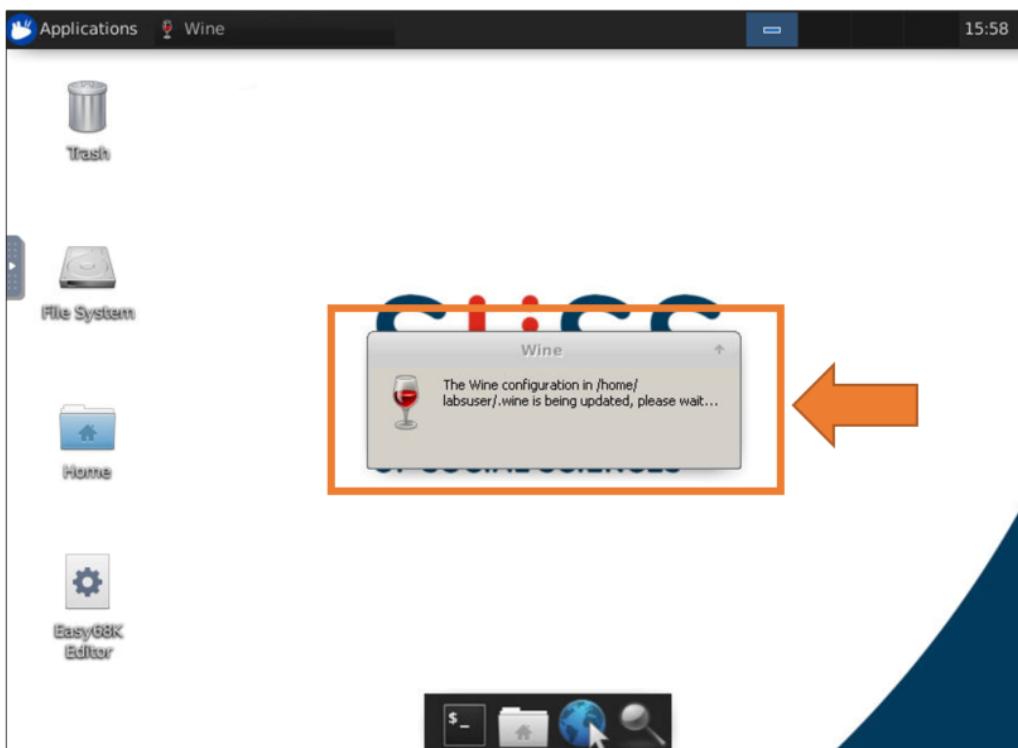


EASY68K EDITOR/ASSEMBLER (if applicable to your course)

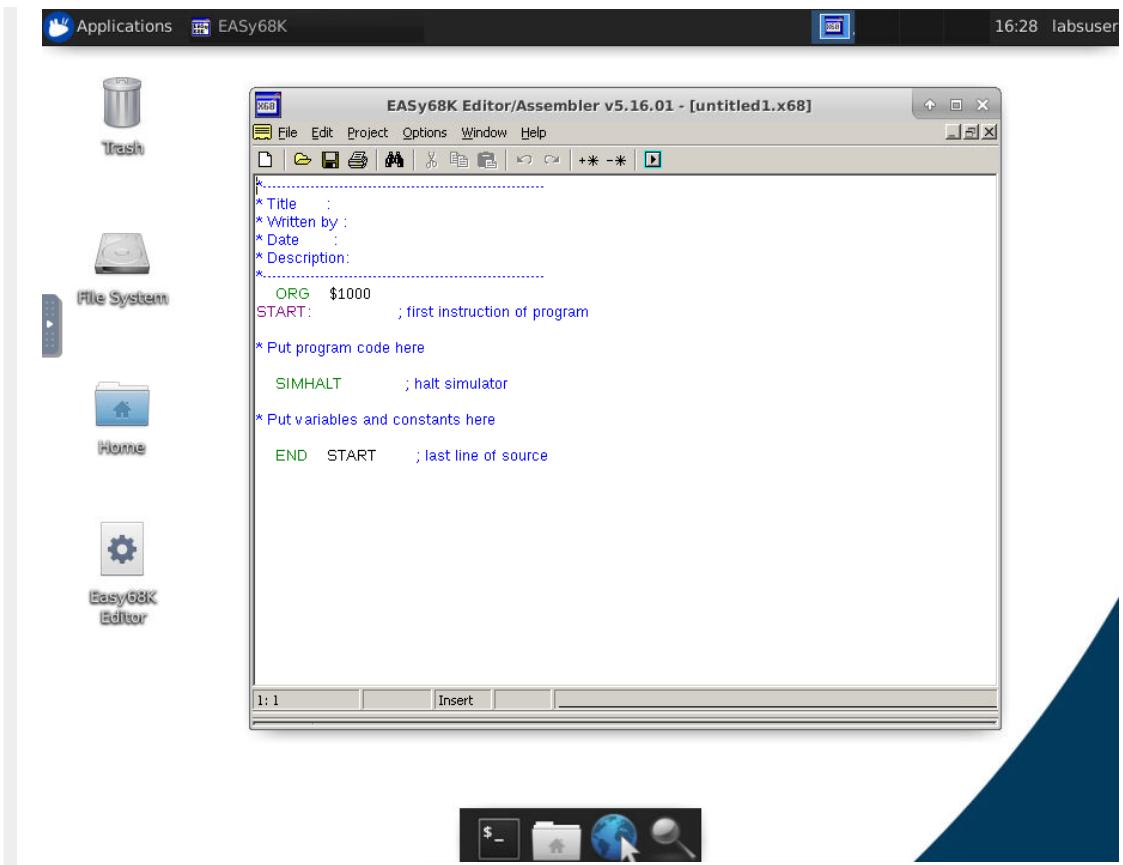
- a. Click on **Easy68k Editor** short-cut located on the desktop.



- b. If you are launching this application for the first time, a message^[5] will be prompted.



- c. The application displayed will be the same as the screenshot below.



END LAB SESSION

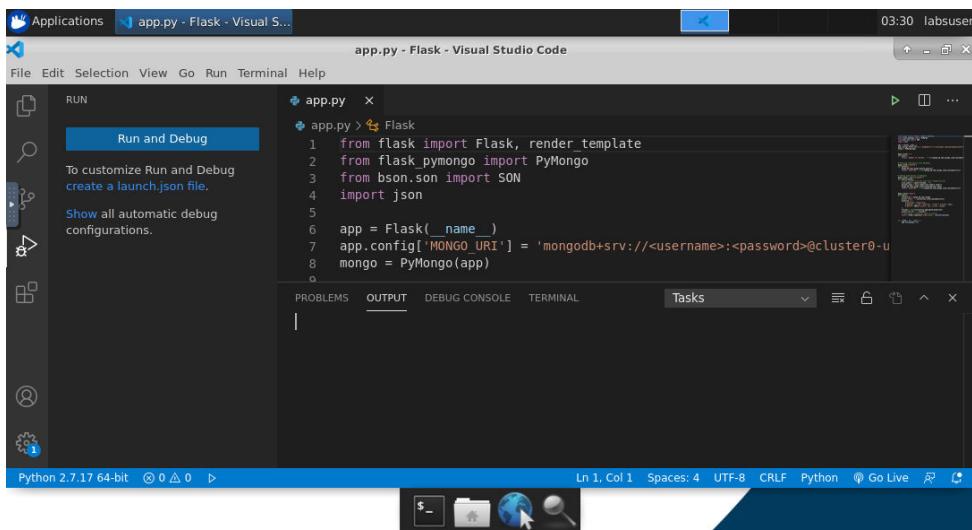
Navigate to Workspace and click on **End Lab** link to end your lab session as shown in the screenshot below.^[6]

ICT133_JAN22_T01: STRUCTUR...

theia ● desktop ● 04:58 ■ End Lab ⓘ Details ✎

CREATE RECORDING LINKS FOR RUNNING OF PROGRAM (if applicable to your course)

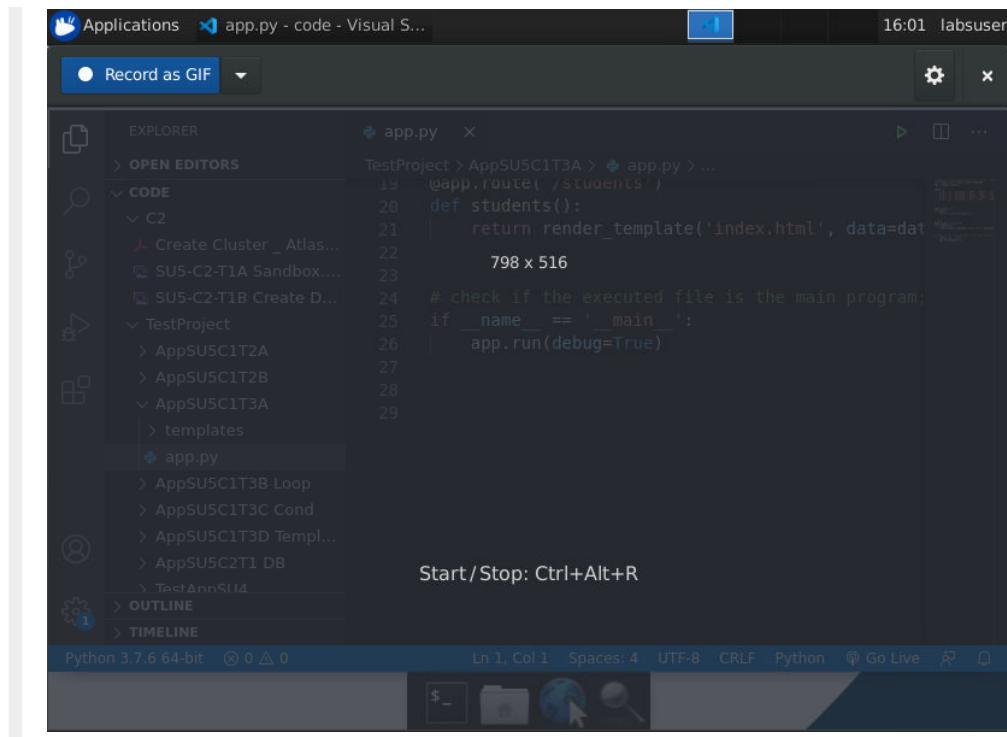
- Open the program that needs to be recorded.



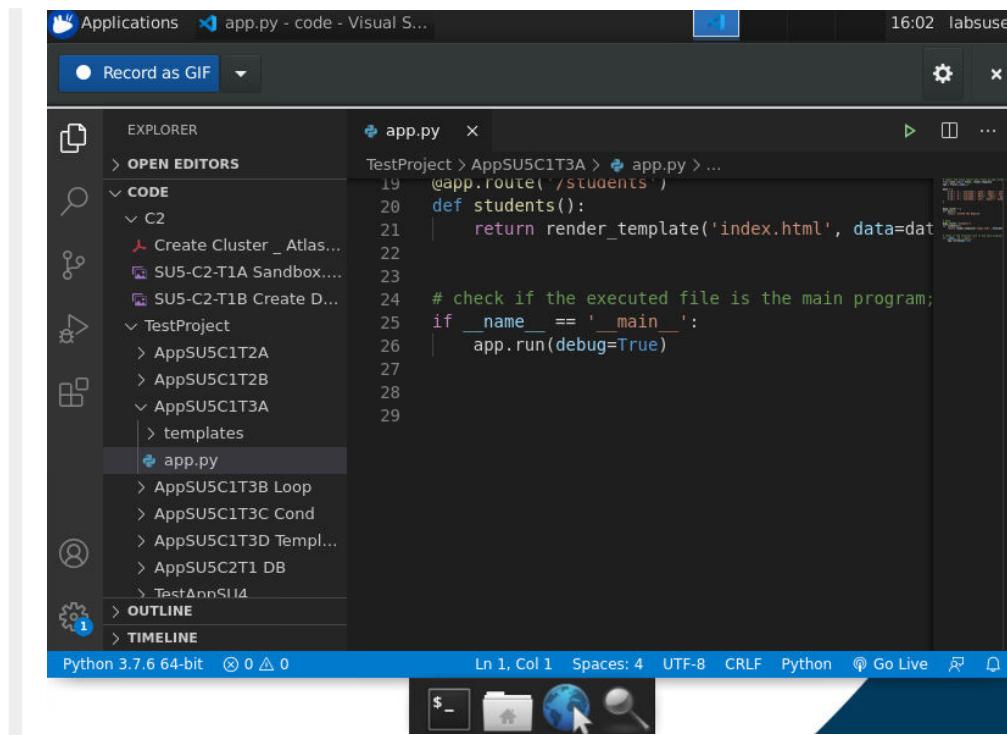
- b. Navigate to desktop and click on **Peek** shortcut.



- c. Position the Peek frame to cover the entire area of screen that needs to be recorded.



d. Click on **Record as GIF** button to start recording. Please keep the file format type as GIF.



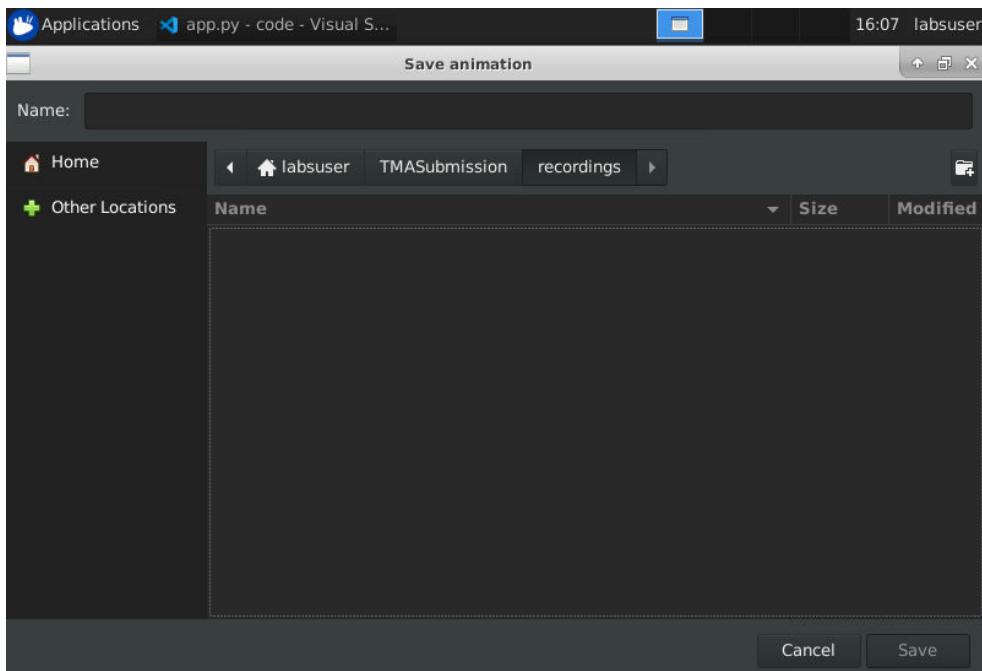
e. Once you have completed your recording, click on **Stop** button.

```
# app.py
# import the Flask module and create an application object
from flask import Flask
import json
app = Flask(__name__)

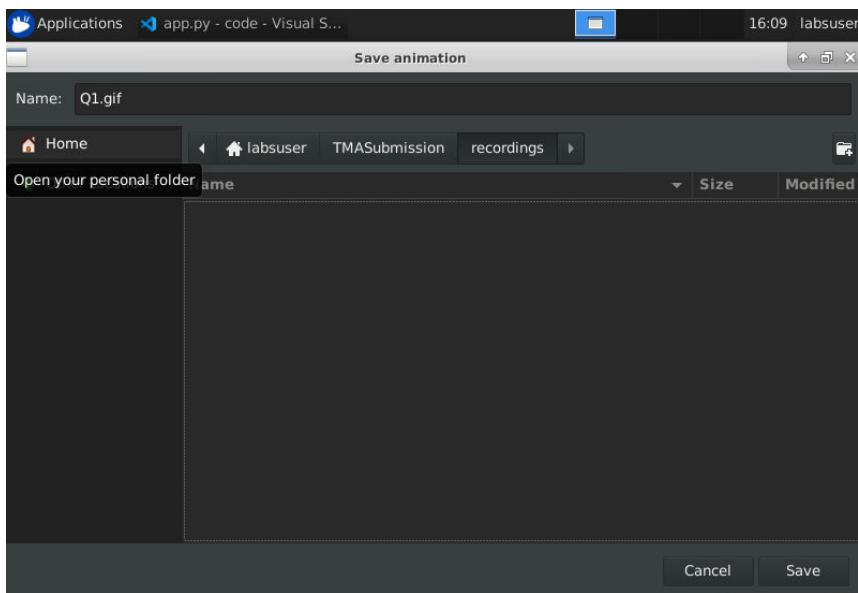
data = [
    {'id': '1', 'username': 'John', 'email': 'john@example.com'},
    {'id': '2', 'username': 'Mary', 'email': 'mary@example.com'},
    {'id': '3', 'username': 'Peter', 'email': 'peter@example.com'},
    {'id': '4', 'username': 'Ann', 'email': 'ann@example.com'}
]

# define the basic route '/'
@app.route('/')
@app.route('/student')
def main():
    return json.dumps(data)
```

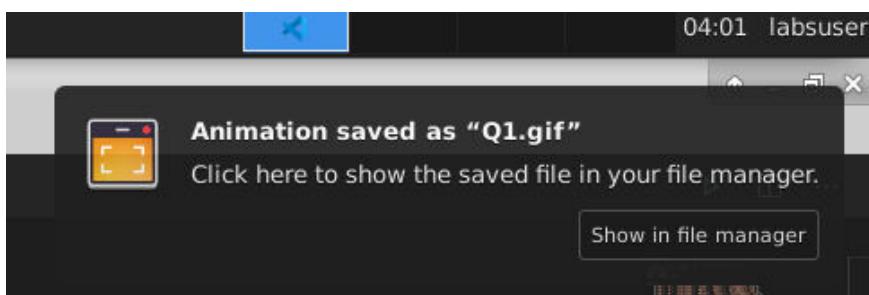
f. Save this file under the *recordings*^[7] folder.



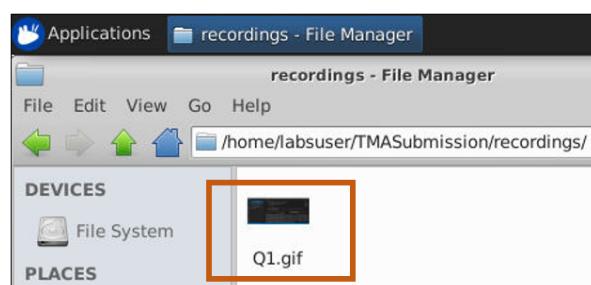
g. Enter a file name and then click on **Save** button. Please keep the format of file as GIF type.



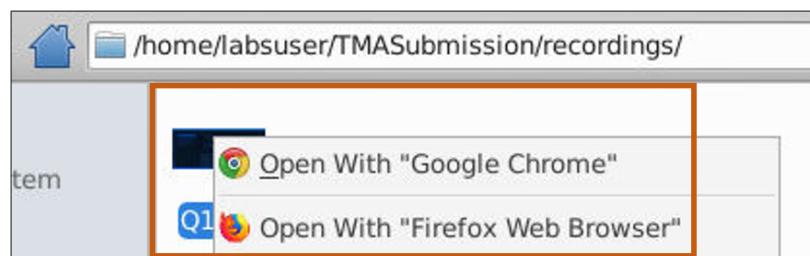
- h. Please wait while the recording is being processed. A notification will pop out at the top right-hand corner of the screen to inform you that the animated GIF is saved successfully. Click “Show in file manager” to view your saved file.



- i. The folder will display to show the saved recording file.



- j. To review the recording, use either Google Chrome or Firefox web browser to open the recording file.



SUBMISSION OF ASSIGNMENT IN ZIP FORMAT (if applicable to your course)

Once you have completed developing your assignment, please ensure that all final version of files are deposited correctly in the respective submission folders as shown in the Table A below. Grader will be accessing these folders to grade your submitted work.

Graded Assignment	Submission folder name shown on desktop	Zip File Name
Tutor-Marked Assignment	TMASubmission	tma.zip
End-of-Course Assignment	ECASubmission	eca.zip

Table A

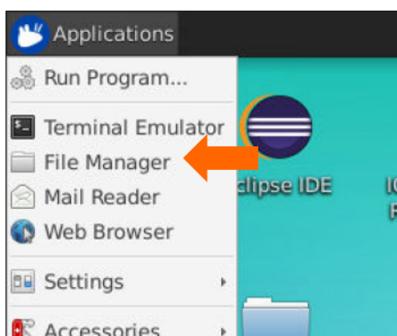
Note: Please note that the Zip File Name is **case sensitive**. Do follow the naming convention as shown in the table above.

- Assuming the solution folders could look like the sample shown below.

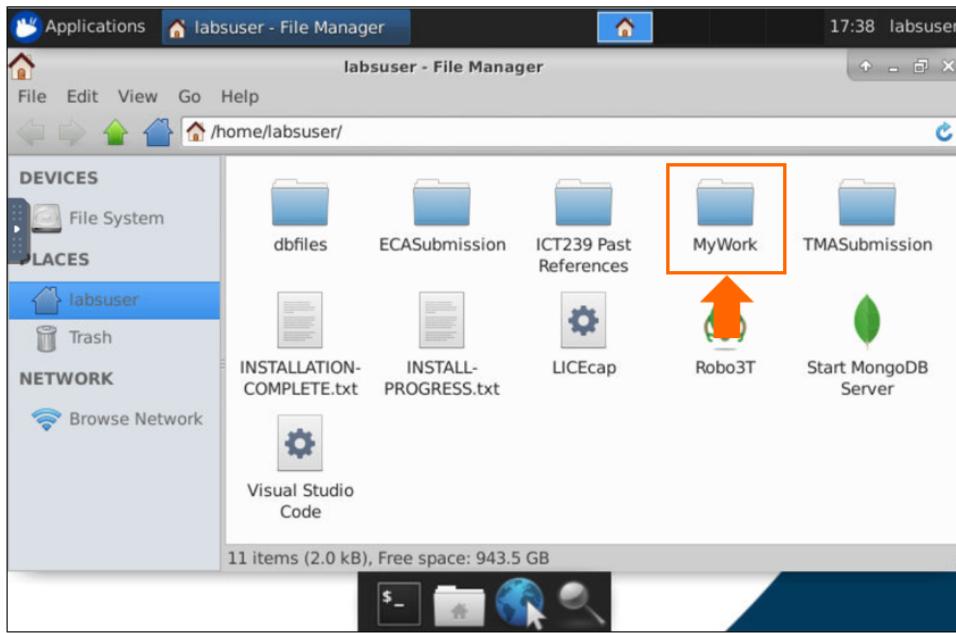
[image]

Note: If you are taking ICT239 course, you should (1) remove the python virtual environment directory (2) retain the requirements.txt file in the main submission folder. This requirements.txt will contain the list of python libraries used for your solution and can be used to repopulate the libraries when the submission is done for further development.

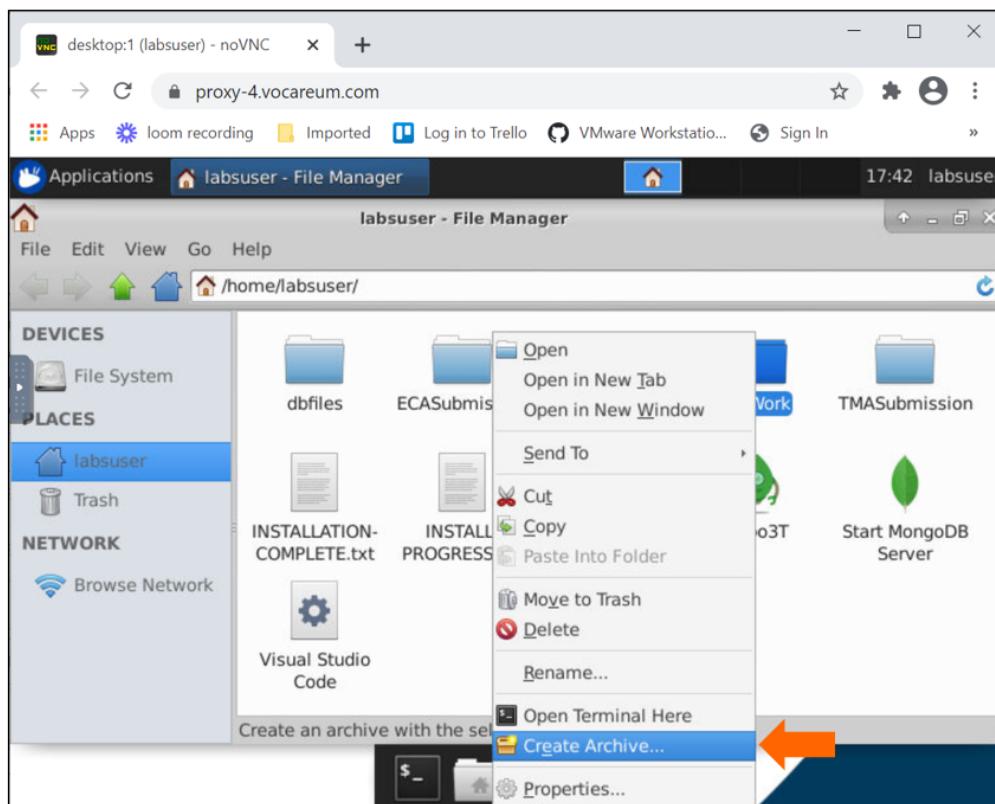
- Zip up your final version of submission with Archive tool. It can be achieved by the following steps.
 - Click to open **File Manager** from Applications Menu.



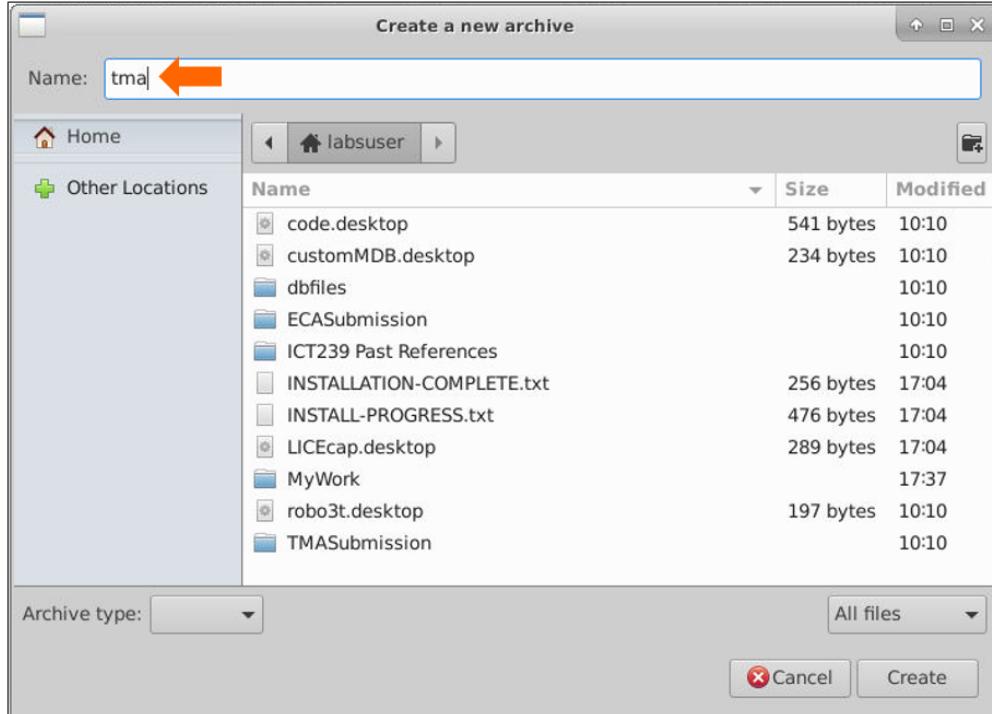
- Navigate to the folder where your final version of files are stored.



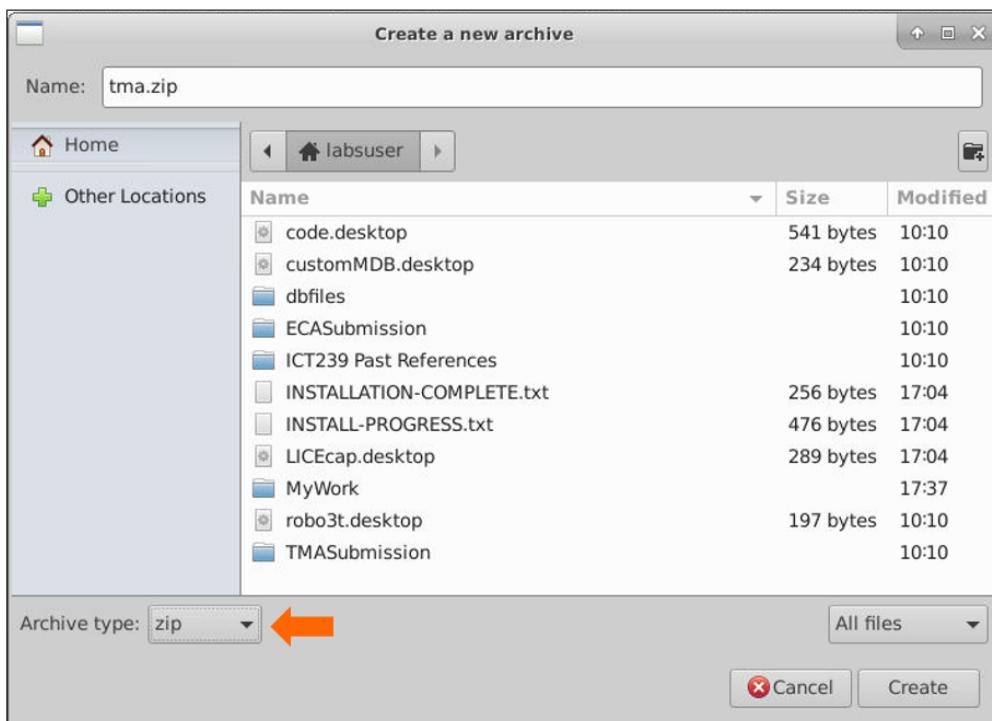
iii. Right-click on that particular folder and click **Create Archive** to open tool.



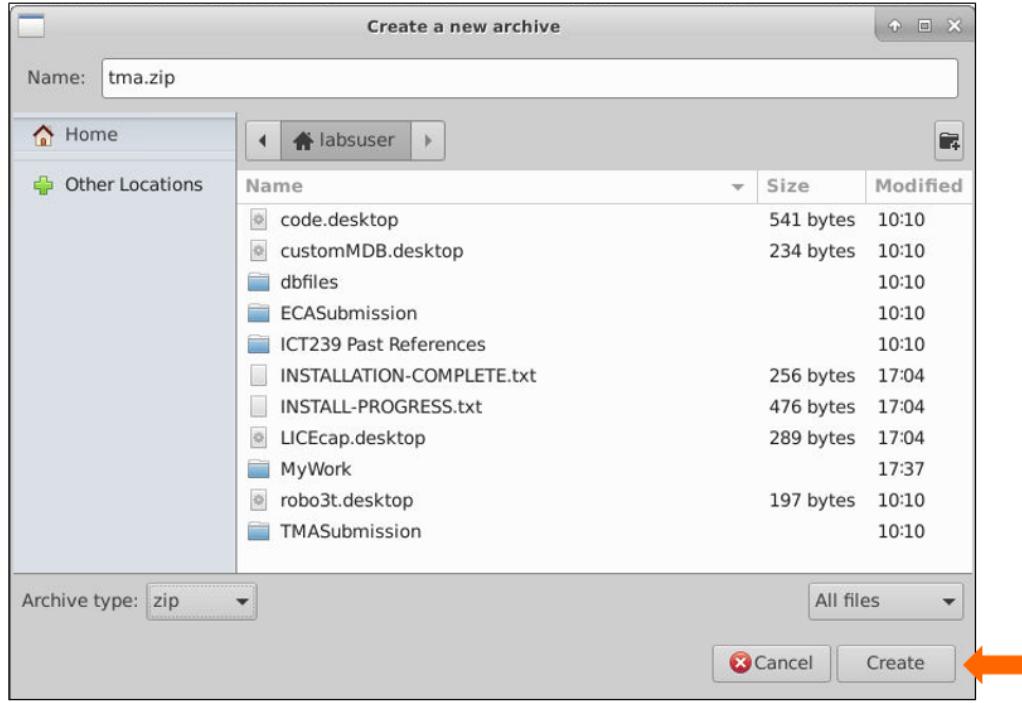
iv. With reference from the above Table A, enter the name of zip file in the Name field. Please note that the naming is case sensitive.



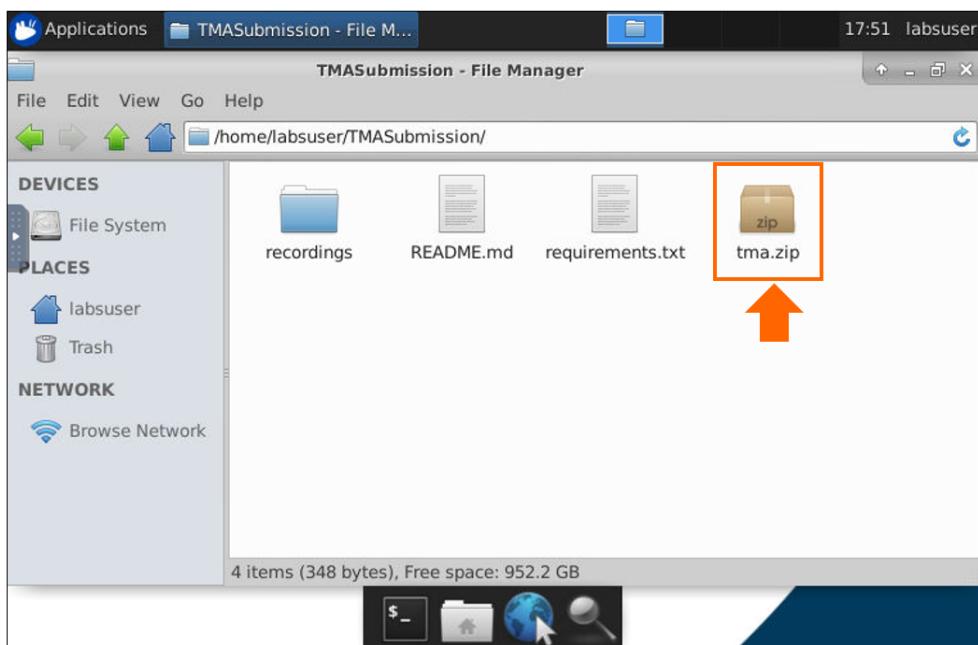
v. Select **zip** from Archive type menu.



vi. Click on **Create** button to create the zipped file.



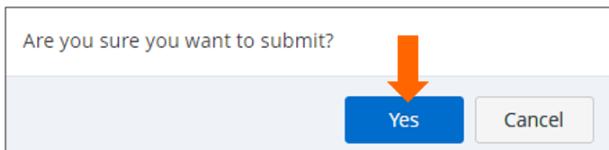
vii. Copy and paste the zipped file into the submission folder.



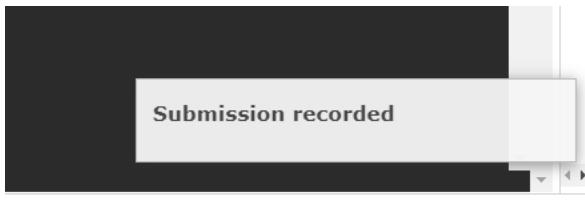
c. Navigate to WorkSpace and click **Submit** button to submit your assignment.



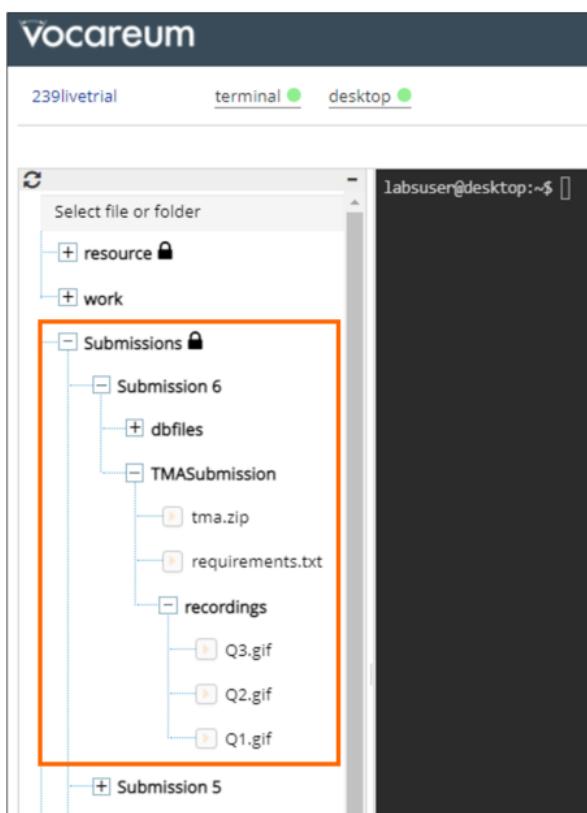
d. A confirmation message will be prompted. Then, click **Yes** button to confirm submission.



- e. A **Submission recorded** message will flash on the bottom right corner of screen.



- f. Use the file browser on the left panel to expand the **Submissions** folder. Do a check just to make sure that the system did capture all the files that you have submitted in the latest submission count.



- g. After you have submitted the zip file of your solution on Vocareum, you need to submit both the report and zip files on Canvas.

Follow the steps below to submit your report and zip file

- i. Click on Vocareum Labs on the left menu to show the dashboard and do a print screen of the submission details as shown in sample below.

The screenshot shows the Vocareum interface. On the left, a sidebar lists navigation options: Home, Announcements, People, Syllabus, Modules, Vocareum Labs (which is selected), Assignments, Grades, Virtual Class, and Discussions. The main content area displays the title "ICT133_JAN22_L01: STRUCTURED PROGRAMMING" and a "My Grade" button. A sidebar on the right shows the assignment details for "ICT133_JAN22_L01: STRUCTURED PROGRAMMING". The details include:

Details	
Last submitted:	Feb-10-2022 2:06:09 pm +08
Submission count:	3
Due date:	Mar 09 2022 23:55:59 +08

A "My Work" button is also visible.

Sample of print screen to be entered in the TMA/ECA report

- ii. Copy and paste the print screen of submission detail into your TMA/ECA report.

Important!

As shown above, the submitted **date/time stamp of the final version of your solution** will serve as your **proof of submission** in Workspace. Thereafter, grader will grade based on your final submission. **Students are allowed to make multiple submissions before the assignment due date, nonetheless please repeat the above steps (b-g).** Students are advised not to submit on Vocareum Lab again once the final version of report is submitted on Canvas as the timestamp on the final version of report should match with the last submission on Vocareum.

- iii. Navigate to Canvas and select either **TMA01** or **ECA** link under **Assignments** to submit word document report for the respective TMA and ECA assignments.

ICT239_JAN21_T01 > Assignments

2021_JAN_T2_PT_6

Search for Assignment

Home

People

Syllabus

Assignments

Grades

SUSS Gradebook

Virtual Class

Collaborations

Report a Problem

Upcoming Assignments

TMA01

-TMA.zip

ECA

-ECA.zip

For further instructions on submission of assignment, please download **Canvas User Guide for Students** from Learning Services (LS) Support Portal via the link below:

<https://suss.force.com/lssupport/s/userguideforstudent>

- iv. Repeat the same steps as **Step iii** for submission of zip file. Please note that you are required to select either **-TMA.zip** or **-ECA.zip** link when submitting your zip file for the respective TMA and ECA assignments.

ICT239_JAN21_T01 > Assignments

2021_JAN_T2_PT_6

Search for Assignment

Home

People

Syllabus

Assignments

Grades

SUSS Gradebook

Virtual Class

Collaborations

Report a Problem

Upcoming Assignments

TMA01

-TMA.zip

ECA

-ECA.zip

TASK LIST OF TMA/ECA SUBMISSION (if applicable to your course)

While you are submitting your assignment to SUSS Canvas, use the following Task Lists (a) and (b) to help guide your steps.

Task List (a)

Description of Task	Completed (Put a tick)	From Student Reference Guide
1. Configured your Chrome browser settings.	<input type="checkbox"/>	Section 1
2. Accessed to Cloud IDE and Virtual Desktop Applications that are applicable for your course.	<input type="checkbox"/>	Section 2, 3, 4, 5 and 6
3. Having the following shortcuts created on your virtual desktop: <ul style="list-style-type: none">• Applications or libraries that is available to your course (Refer to Annexe)• Folder containing past references• Empty folder to be used for assignment submission:• TMASubmission• ECASubmission	<input type="checkbox"/>	Section 5
4. Once you have developed your assignment,		
1. Created recording for running of program. Place the recording in the submission folder.	<input type="checkbox"/>	Section 8
2. Organised and deposited your final version of solution into separate folders for each question.	<input type="checkbox"/>	Section 9
3. Removed the virtual environment directory in the submission folder which includes all the sub-folder(s).	<input type="checkbox"/>	
4. Deposited a copy of requirements.txt file in the submission folder.	<input type="checkbox"/>	

Description of Task	Completed (Put a tick)	From Student Reference Guide
5. Zipped up your final version of solution.	<input type="checkbox"/>	
6. Named the zipped file correctly.	<input type="checkbox"/>	
7. Placed the zipped file in the submission folder.	<input type="checkbox"/>	
5. Submitted assignment in Vocareum Lab.	<input type="checkbox"/>	Section 9
6. Verified the submitted files are captured by system.	<input type="checkbox"/>	Section 9
7. Completed Task List (a) and (b).	<input type="checkbox"/>	Section 10
8. Submitted assignment in Canvas.	<input type="checkbox"/>	Section 9

Task List (b) – To be copy and paste into your report

Description	[Information to be provided by student]	Completed (Put a tick)	From Student Reference Guide
Print Screen of Submission Details from Vocareum Lab:		<input type="checkbox"/>	Section 9
Please indicate that your program can run on Vocareum Lab:	For example: Question 1: Yes Question 2: No Question 3: Yes	<input type="checkbox"/>	Answer either Yes or No.
Please provide the file names of recordings in the recordings sub folder.	For example: Question 1: Q1.gif Question 2: Nil. Question 3: Q3.gif	<input type="checkbox"/>	Section 8

IT SUPPORT

Should you have any query or issues encountered, please use the discussion forum in Canvas for clarification. Alternatively, you may contact the administrator via email at vlisupport@suss.edu.sg for further support.

IMPORTANT POINTS TO TAKE NOTE (if applicable to your course)

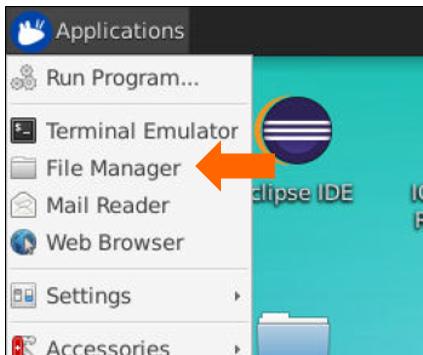
- a. Students' final version of solution code are required to be zipped and deposited in the submission folder. For those who choose to develop their work locally, they would be responsible themselves for issues encountered in the local platform and to perform by uploading their files to the default Vocareum platform so that instructor can unzip it and run the source code.
- b. The solution code will ONLY be accepted on Vocareum when the Word Document report for Turnitin is also submitted. Otherwise, it will be considered as invalid.

+

APPENDIX A-1 [DOWNLOADING FILE FROM VIRTUAL DESKTOP]

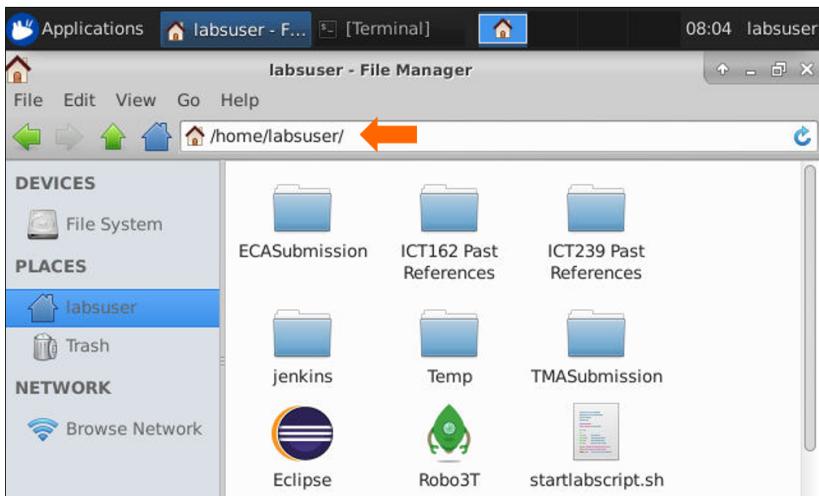
To download file from virtual desktop to your local computer, please use the steps below:

- a. Copy the file(s) that you need.
- b. Click to open **File Manager** from Applications menu.

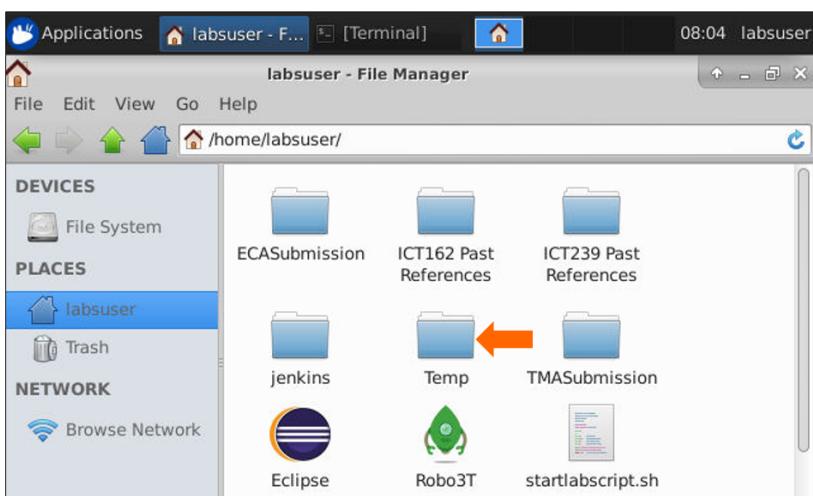


- c. Navigate to the following path in File Manager:

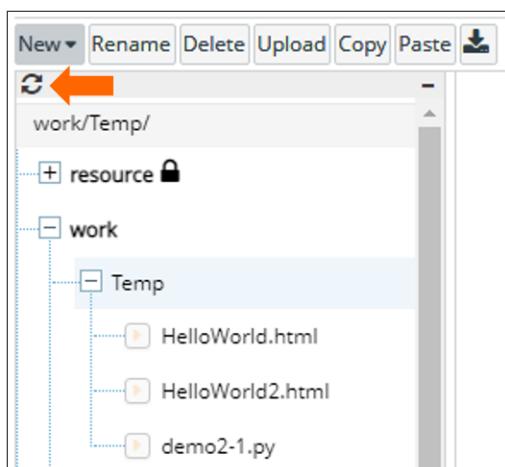
/home/labsuser/



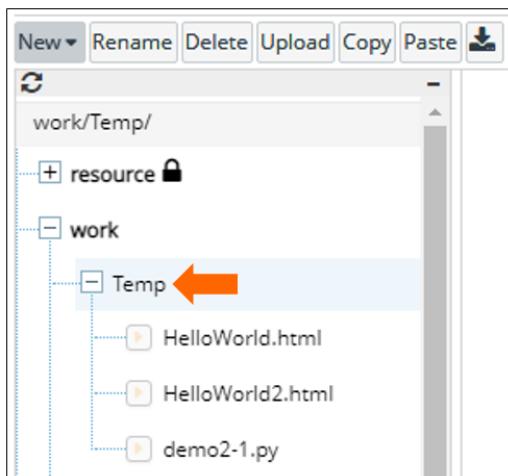
- d. Paste those file(s) into this folder. If there are multiple files, you may wish to create a temporary folder to hold it first.



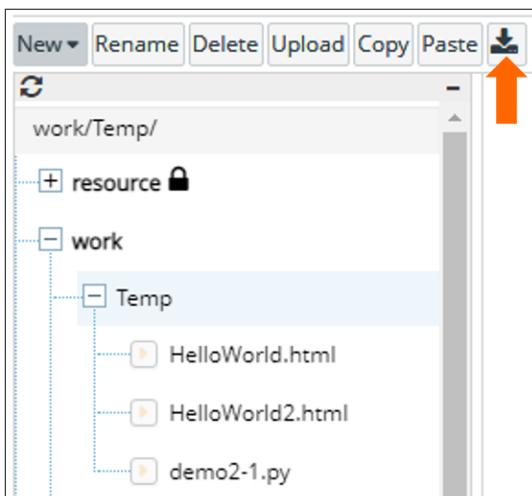
- e. Navigate to WorkSpace Terminal and click on Reload icon as pointed to by arrow below. This action will reload the contents of the work folder.



- f. To ensure the file(s) is reloaded correctly, expand work/Temp folder to verify that those file(s) is present.



g. Select the file(s) that you need and then click **Download** button.



h. System will compress the selected file into Zip. Click **Download zipped source** link to download and save those file(s) into local computer.



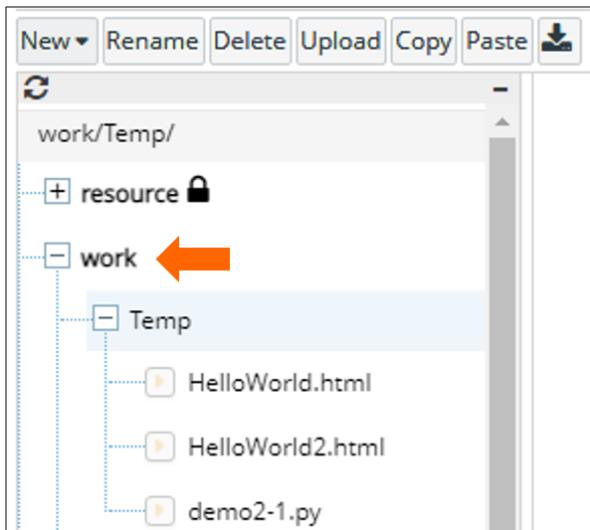
Email: xxx@suss.edu.sg
Assignment: ICT239_JAN22_L01: WEB APPLICATION DEVELOPMENT

[Download zipped source](#)

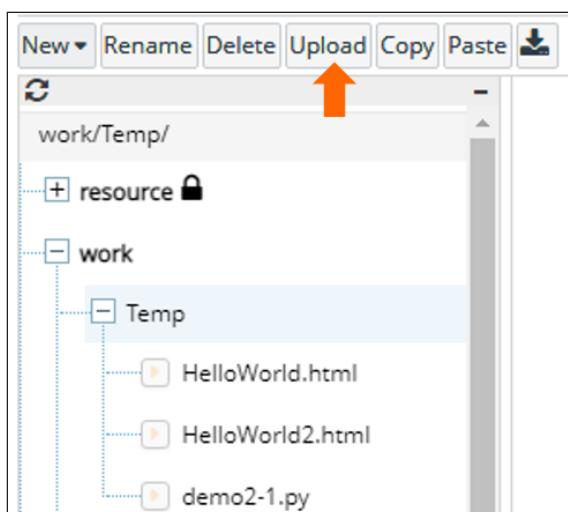
APPENDIX A-2 [UPLOADING OF FILE TO VIRTUAL DESKTOP]

To upload file from your local computer to virtual desktop, please use the steps below:

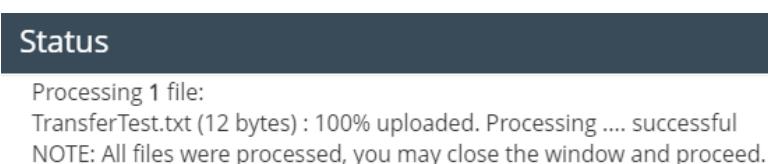
a. Go to WorkSpace Terminal and select **work** folder.



- b. Click on **Upload** button and open the file that you need.



- c. System will start to process the upload and will prompt successful when completed.



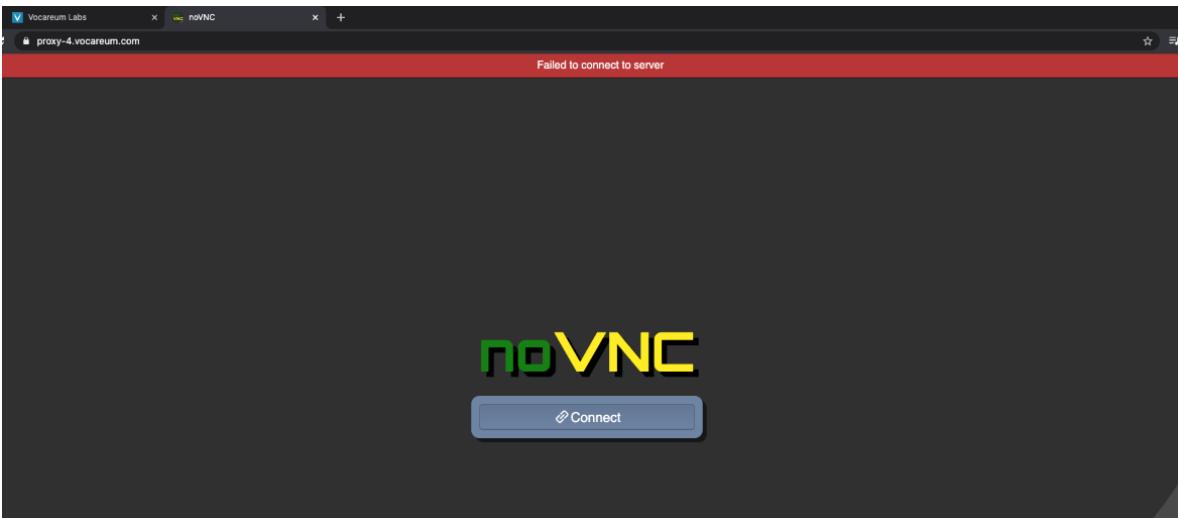
- d. Navigate to Virtual Desktop to verify those uploaded files. They should be located in the File Manager when you access this path.

/home/labsuser/

APPENDIX A-4 [RE-CONNECT VIRTUAL DESKTOP]

How to resolve connection error when connection to virtual desktop is lost?

A sample of the error is shown below:



- a. Close the browser tab.
- b. Repeat Step 5a and 5b under [Section 5](#) to reconnect the virtual desktop.
- c. If the same error occurs,
 - i. Repeat the step under [Section 7](#) to end the current lab session.
 - ii. Then click Start Lab to start a new lab session.

APPENDIX A-5 [ACCOUNT REGISTRATION FOR CISCO SKILLS FOR ALL]

- a. Go to <https://skillsforall.com/course/getting-started-cisco-packet-tracer> and click the **Get Started** button.

A screenshot of a web browser window showing a course page for "Getting Started with Cisco Packet Tracer" on the skillsforall.com website. The browser's address bar shows the URL. The page has a green header with the Cisco Academy logo and navigation links like "Networking", "Take a Tour", and "Sign In". The main content area features the course title and a brief description: "Your on-ramp to Cisco Packet Tracer. Get familiar with the simulation environment and download the latest version." A prominent green "Get Started" button is at the bottom.

- b. Click the Sign up link.

The screenshot shows a web browser window with the URL auth.socialgoodplatform.com/auth/realmsskillsforall/protocol/openid-connect/auth?client_id=.... The page title is "Login | Skills for All with Cisco". The main content is a "Welcome!" message with a "Please login to your account." instruction. It features two input fields: "Email" (with placeholder "Email") and "Password" (with placeholder "Password"). Below these is a "Remember me" checkbox and a "Forgot Password?" link. A green "Login" button is centered. Below the login form is a "Or continue with" section with "Google" and "NetAcad" buttons. At the bottom is a "Don't have an account? [Sign up](#)" link.

c. Select Country, Year of Birth and Month of Birth and then click the Continue button.

The screenshot shows a web browser window with the URL auth.socialgoodplatform.com/auth/realmsskillsforall/login-actions/registration. The page title is "Login | Skills for All with Cisco". The main content is a "Sign Up" message with the sub-instruction "You'll be able to start classes as soon as you sign up.". It features a "Sign up with" section with "Google" and "NetAcad" buttons. Below this is a "Create New Account" section. Under "Your country or region of residence", a dropdown menu is open, showing "Singapore" as the selected option. Below this are two dropdown menus: "Year of Birth" (set to "2000") and "Month of Birth" (set to "January"). At the bottom is a green "Continue" button.

d. Enter First name, Last name, Email, Password and then click the Create account button. **For Email, please enter your SUSS email address.**

Sign Up

You'll be able to start classes as soon as you sign up.

Sign up with

Create New Account

First name Peter	Last name Oh
Email peter001@suss.edu.sg	
Password *****	
>Password requirements	
Confirm password *****	

Create account

- e. Enter First name, Last name, Email, Password and then click the Create account button.

Change. You are solely responsible for any costs and expenses you incur as a result of your use of the Websites or the Services. You agree that Cisco may later require users to pay a fee to continue to use the Services or to use the Websites.

12. General. Subject to that, this Agreement constitutes the entire agreement between you and Cisco regarding the use of the Services and the Websites. The failure of Cisco to exercise or enforce any right or provision of this Agreement shall not operate as a waiver of such right or provision. The section titles in this Agreement are for convenience only and have no legal or contractual effect. This Agreement operates to the fullest extent permissible by law. If any provision of this Agreement is unlawful, void or unenforceable, that provision is deemed severable from this Agreement and does not affect the validity and enforceability of any remaining provisions. The parties are independent contractors under this Agreement and no other relationship is intended, including a partnership, franchise, joint venture, agency, employer/employee, fiduciary, master/servant relationship, or other special relationship. Neither party shall act in a manner which expresses or implies a relationship other than that of independent contractor, nor bind the other party.

I have read and agreed to the terms & conditions. *

I agree to receive future promotions, offers and communication from Skills for All.

Accept & Continue **Cancel**

- f. Check your mailbox to make sure that you have received an Enrolment Notification email that looks like the sample below.

Mon 14/03/2022 11:36 am
Networking Academy <noreply@skillsforall.com>
Course Enrollment Notification
To  Justin See Tiong Beng (SUSS)
If there are problems with how this message is displayed, click here to view it in a web browser.

CISCO Networking Academy

Congratulations Justin!

You're ready to embark on your journey with Getting Started with Cisco Packet Tracer.

New to SkillsForAll.com?

You should have received an activation email to get you started. If you cannot find your activation email, use the Forgot Password link in Login screen at [SkillsForAll.com](#).

Already have an account with us?

Log in at [SkillsForAll.com](#) and visit My Learning to access your course. If you forgot your password, use the Forgot Password link in Login screen.

My Learning

This is your personalized area on SkillsForAll.com to set goals, motivation and to track your pathway progress. Make it yours!

Your path from dreams to success starts here!

- g. You may return to [Section 6.4](#) for login via **Skills For All** button.

APPENDIX A-6 [ACCOUNT REGISTRATION FOR CISCO NETWORKING ACADEMY]

- a. Navigate to the self-enrolment website by clicking the URL link posted on the VLI Support Discussion Forum in Canvas L-group.
- b. Upon access to the website, enter Country, Birth Month and Birth Year, then click the **Next Account Details** button.

COMPUTER NETWORKING

Singapore University of Social Sciences

Description

Self Enrolment for ICT259_JAN2022 Semester

Course Details

ICT259_JAN2022

Introduction to Packet Tracer (English - 1.13)

24 Mar - 24 Jun 2022

VLI Team

Enroll now

Your country or region of residence *

Singapore

Your Birth Month *

January

Your Birth Year *

2000

[Next Account Details](#)

- c. Enter your Particulars, Email (use SUSS email address), State, Captcha and then click the **Submit** button.

COMPUTER NETWORKING

Singapore University of Social Sciences

Description

Self Enrolment for ICT259_JAN2022 Semester

Course Details

ICT259_JAN2022
Introduction to Packet Tracer (English - 1.13)
24 Mar - 24 Jun 2022
VLI Team

Enroll now

First Name *

Last Name *

Email *

Country or region *

State *

$10 + 3 =$
Math question (Captcha) *

I would like to receive email communications about courses and learning offerings from Cisco and its Affiliates. I understand I can unsubscribe at any time.

[Back](#)

[Submit](#)

- d. Once the form is submitted, the website will display a message same as the screenshot below.

The screenshot shows a green-bordered message box with a white background. At the top left is a green circular icon with a white checkmark. To its right is the word "Home". The main content of the box is a bulleted list:

- Thank you for enrolling. To get started, we emailed a link to activate your account to 001@suss.edu.sg. Follow the instructions to access your course. You must activate your account in order to access the course.

Below this, there is a link "Did not receive an activation email?". Underneath that are three numbered options:

- Check your spam folder - Sender will be no-reply@netacad.com
- [Resend Activation Email](#)
- Still having issues? Please contact [NetAcad Virtual Agent](#)

In the top right corner of the message box is a small "X" icon.

COMPUTER NETWORKING

Singapore University of Social Sciences

Description

Self Enrolment for ICT259_JAN2022 Semester

Course Details

ICT259_JAN2022
Introduction to Packet Tracer (English - 1.13)
24 Mar - 24 Jun 2022
VLI Team

- e. Check your SUSS mailbox for an email sent from Netacad.com and click the **Activate Account** button.



Hello ,

Welcome to Cisco Networking Academy!

To activate your account, please click the button below:

Activate account

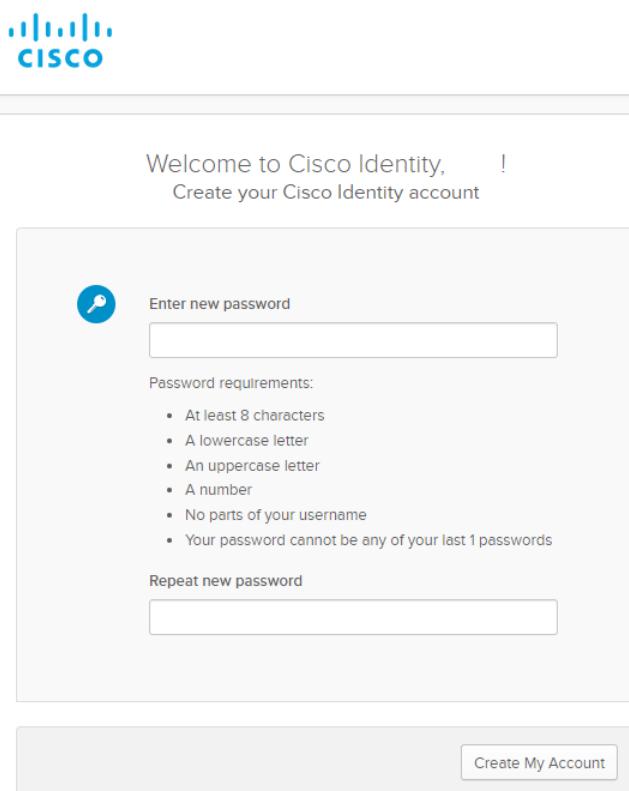
TIPS:

- This link is valid for a limited time. If this link is expired, please go to <https://www.netacad.com> and click on Log In/Resend Activation Email to get a new link.
- If you do not see Activate account button above, please copy the following link and paste into your browser:
https://id.cisco.com/welcome/H6Cs1AQHNFGyEFTkCl4S?fromURL=https://www.netacad.com/portal/saml_login
- If you already have an account, go to <https://www.netacad.com> and click Log In to access your courses.
- Your NetAcad ID is 1037003631. Keep this handy in case you ever need support

Whether you've always been passionate about technology or just discovered IT, there has never been a better time to get started.

Sincerely,
Cisco Networking Academy Team
<https://www.netacad.com>

- f. When a new page is launched, enter your new password and repeat to confirm. Then click **Create My Account** button.



The image shows a screenshot of a web browser displaying the Cisco Identity account creation page. The page features the Cisco logo at the top left. The main heading reads "Welcome to Cisco Identity, ! Create your Cisco Identity account". Below this, there is a form with the following fields and instructions:

- A password input field with a key icon, labeled "Enter new password".
- A section titled "Password requirements:" with the following list:
 - At least 8 characters
 - A lowercase letter
 - An uppercase letter
 - A number
 - No parts of your username
 - Your password cannot be any of your last 1 passwords
- A second password input field labeled "Repeat new password".
- A "Create My Account" button located at the bottom right of the form.

- g. Choose the option required for the question about experience and then click **Create Account** button.

We're excited to have you join the Networking Academy community. Learning more about you allows us to create programs that help people around the world. So tell us a little about yourself.

Account Email *

Email address will be used to activate and login for the account.

Language *

You can change Language later in user profile screen

First Name *

Last Name *

Your Birthday *

Birth Month * Birth Year *

January	2000
---------	------

We use birth information for aggregated age category reporting, and to identify duplicate registrations.

Providing additional personal information is optional but helps us provide a more personalized experience.

I agree to provide more information about myself.

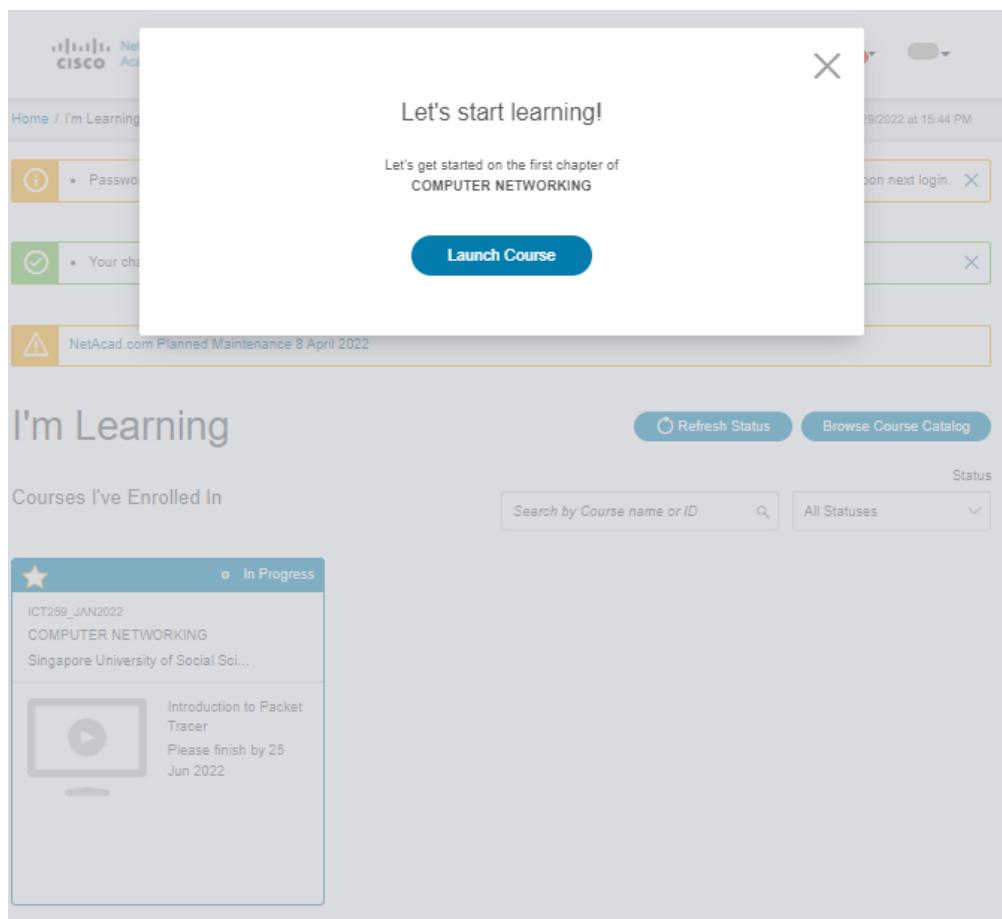
What is your practical experience in IT, networking, and cybersecurity? *

I would like to receive email communications about courses and learning offerings from Cisco and its Affiliates. I understand I can unsubscribe at any time.

By clicking Create Account, you agree to our [Terms and Conditions](#), and that you have read our [Privacy Statement](#), [Networking Academy Privacy Data Sheet](#), including our [Cookie Policy](#).

Create Account

- h. Once your account is created successfully, the website will display a message same as the screenshot below.



- h. You may return to [Section 6.4](#) for login via **Networking Academy** button.

ANNEXE

The following is the list of applications that have been pre-installed in the virtual desktop.

No	Application Name
1.	Web Browsers (Firefox and Chrome)
2.	Visual Studio Code
3.	Python3.6 – 3.7
4.	Virtual Environment (venv)
5.	Jupyter Notebook
6.	MongoDB Server
7.	Peek
8.	Code-Server
9.	JupyterLab
10.	Wine
11.	Packet Tracer
12.	EASy68k

FAQ

1. The loading of WorkSpace is taking a long time to load.

Students who are accessing their WorkSpace for the first-time might experience a longer time to load as the system is performing the initialization process. Please be advised not to close the web browser and wait until the loading is completed.

---END OF GUIDE---

[1] Refer to [Annexe](#) for the list of applications and libraries.

[2] Do remember to save your work first before exit.

[3] (a) If you have already registered with Skills For All, you do not have to register with Networking Academy as this is an option provided for student. (b) The procedure to register with Networking Academy is provided on [Appendix A-6](#).

[4] This particular directory has read only access. If you need to save the file, please choose Home directory.

[5] The installation may take up to 5 minutes to complete.

[6] Do remember to save your work first before ending the lab session.

[7] If you do not see this folder, please create it manually.