

# SOFTWARE CONSTRUCTION & DEVELOPMENT LAB

**BSE ( V-B )**

Submitted By:

Musfira Farooq

Roll No:

2023-BSE-045

Submitted To:

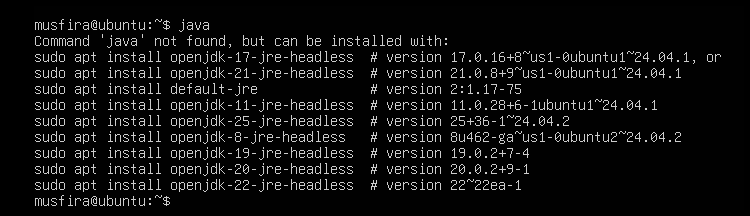
Sir Muhammad Shoaib

**LAB 05**

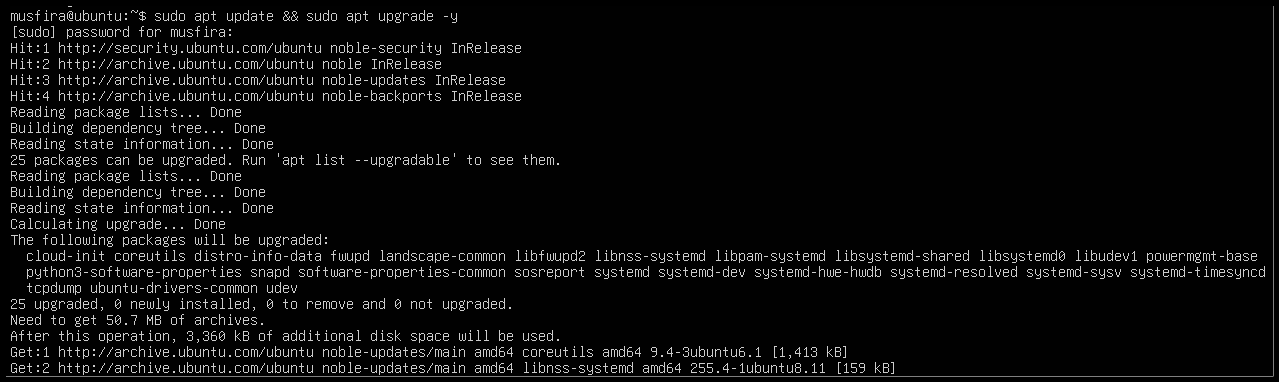
### **Installing, Managing Packages, GUI, and Tools in Ubuntu**

**Task 1**

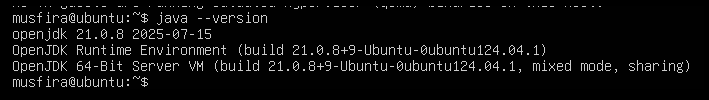
Java Suggestion Message



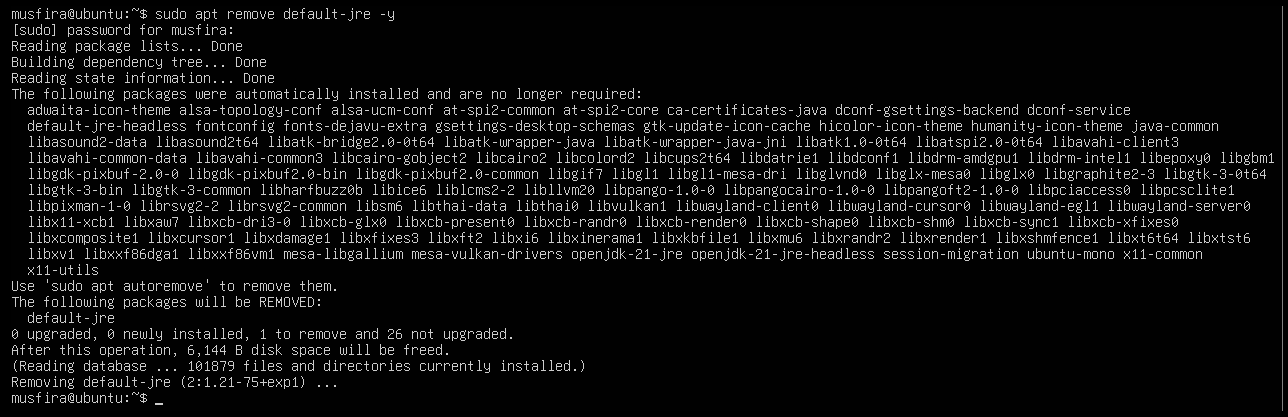
Installing Java using apt



Checking Java Version



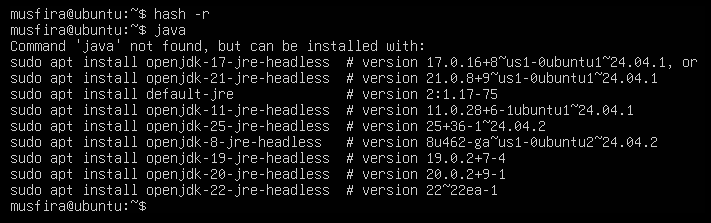
Removing Java Package



Java Not Found After Removal

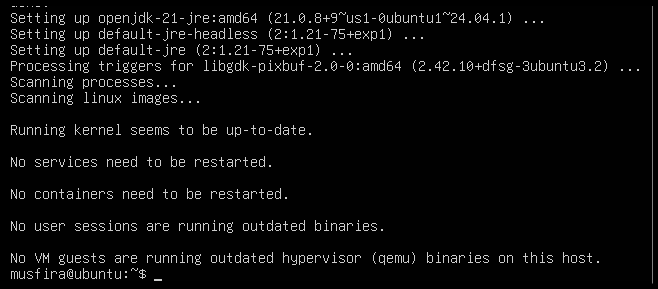


Clearing Shell Cache (hash -r)

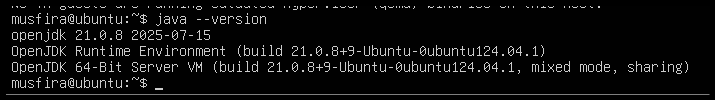


**Task 2**

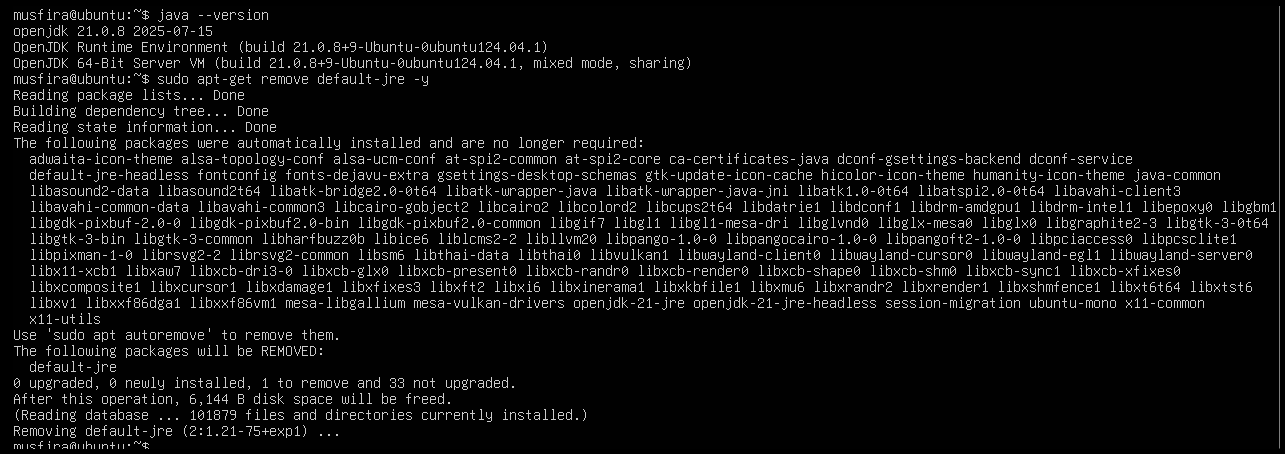
Installing Java with apt-get



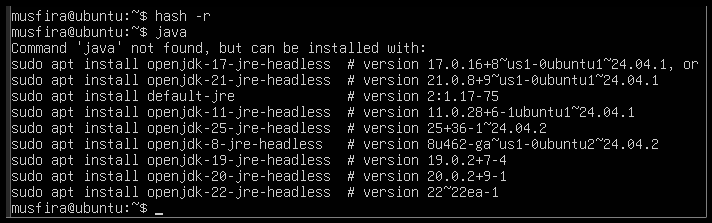
Verifying Java Version



Removing Java using apt-get

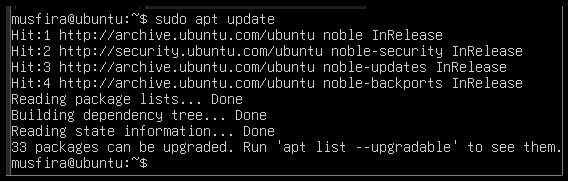


Verifying Java Removed

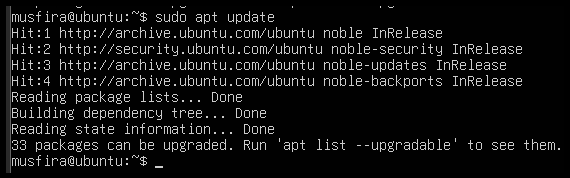


**Task 3**

Running apt update



Running apt upgrade

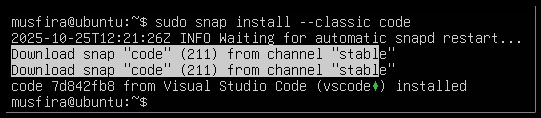


Written Explanation File



**Task 4**

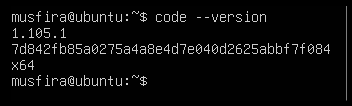
Installing VS Code using Snap



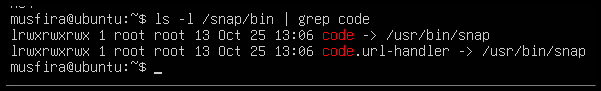
Listing Installed Snap Packages



Checking VS Code Version

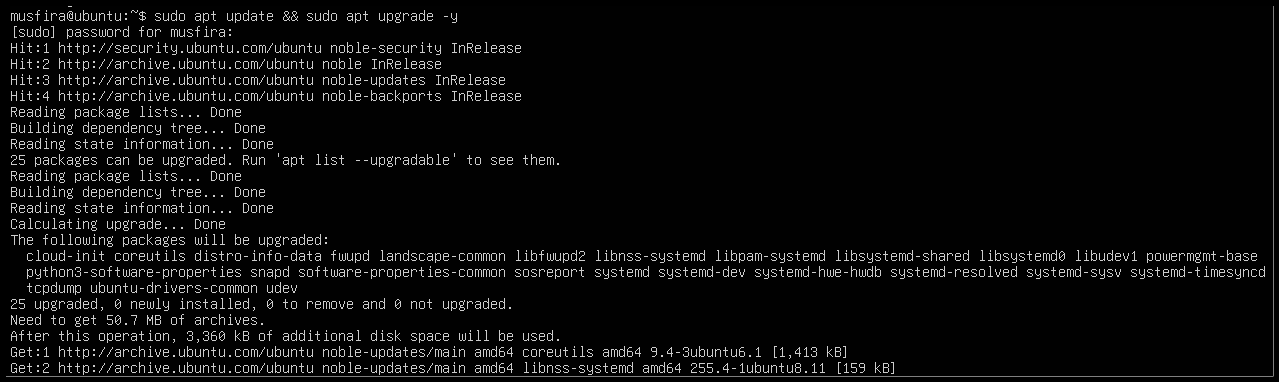


Snap Binary Location for Code

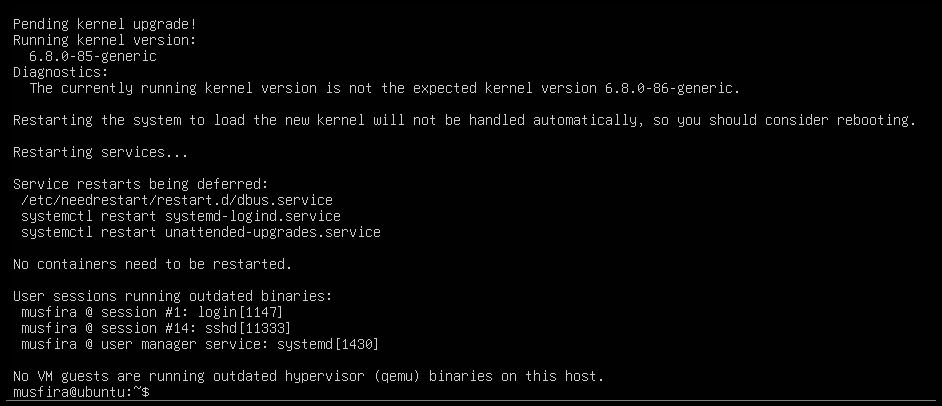


**Task 5**

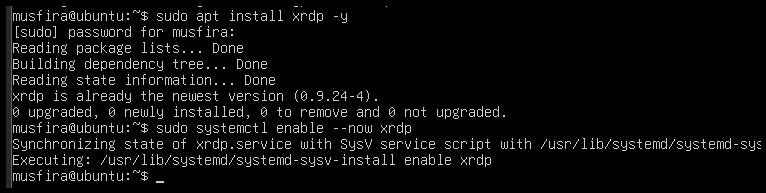
Updating Packages



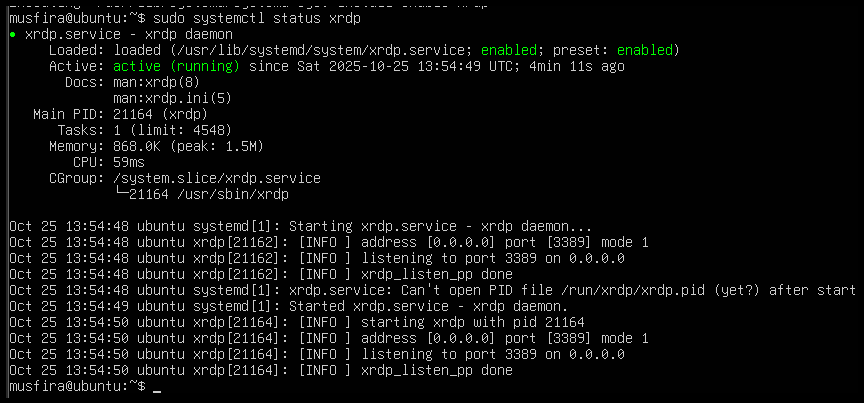
Installing XFCE4 Desktop Environment



Enabling XRDP Service



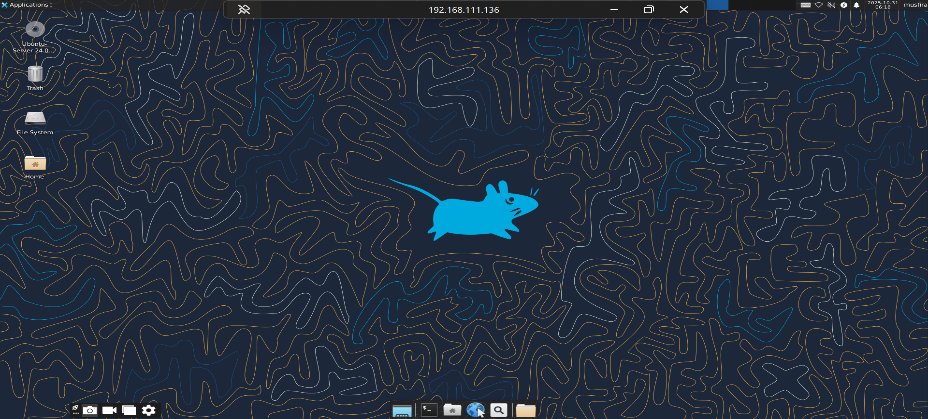
Checking XRDP Status



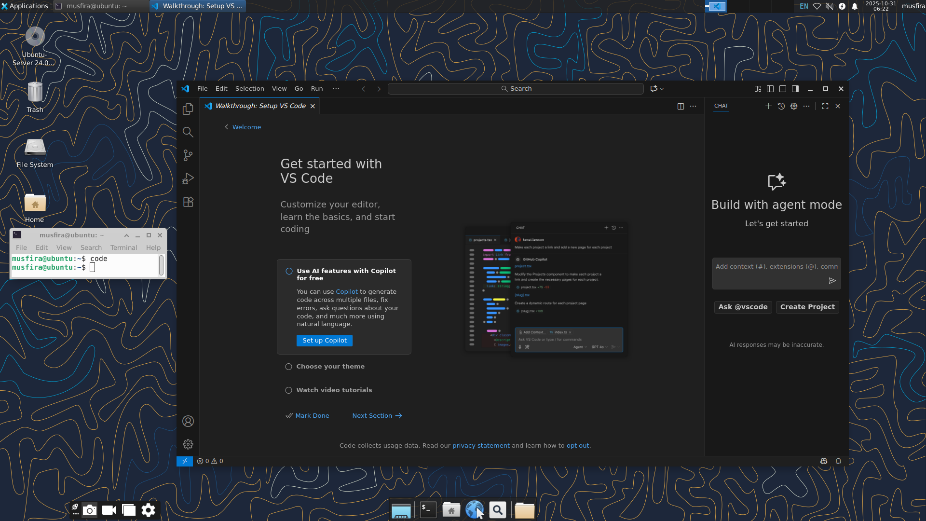
Configuring .xsession for XFCE



Remote Desktop Connection Established

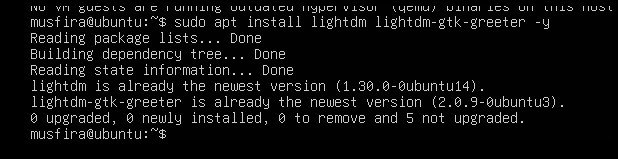


Launching VS Code in GUI

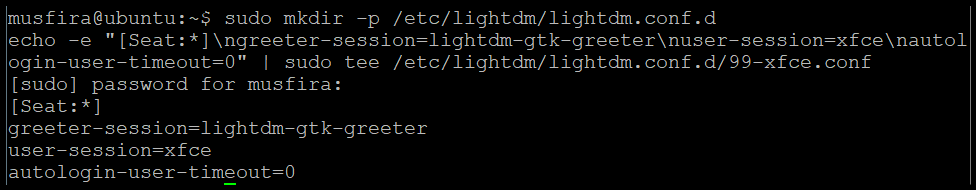


**Task 6**

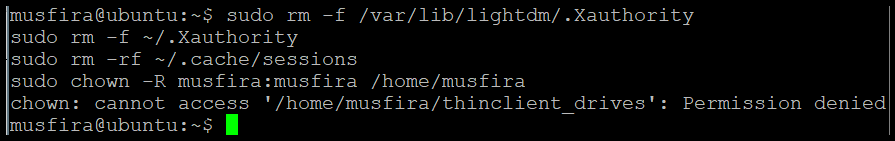
Installing LightDM and Greeter



Configuring LightDM for XFCE



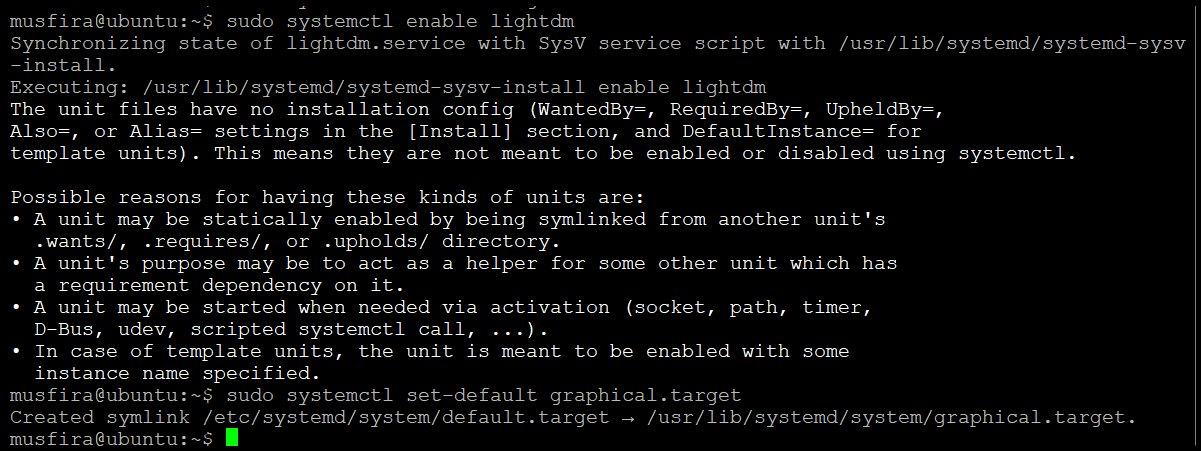
Cleaning Session Files



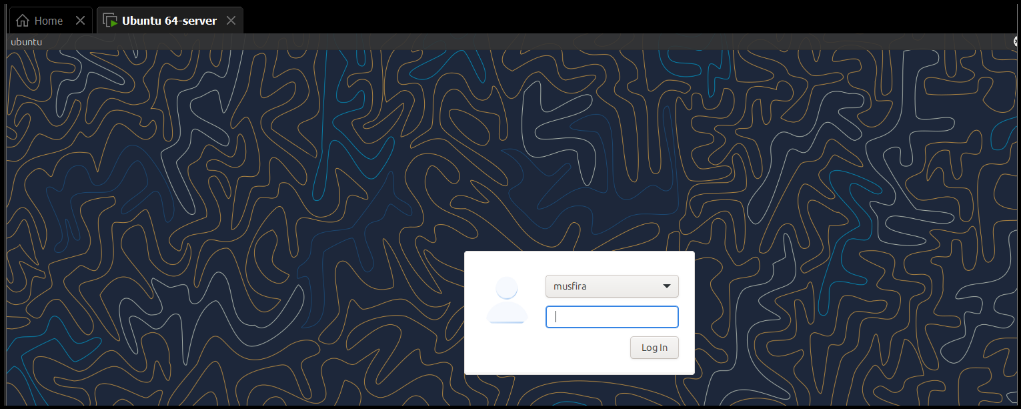
Restarting LightDM Service



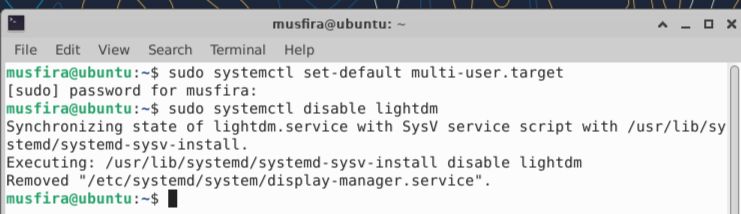
Enabling GUI on Boot



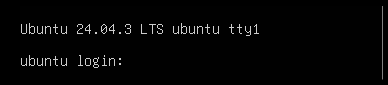
GUI Login After Reboot



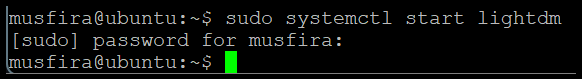
Disabling GUI on Boot

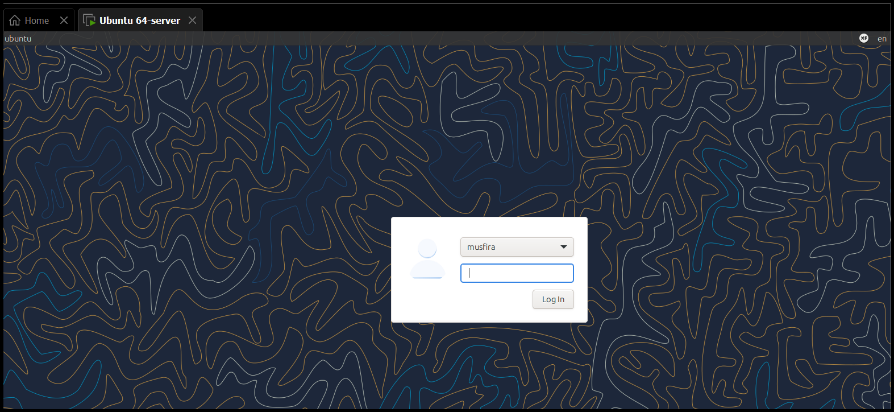


CLI Mode After Reboot



Starting GUI Manually





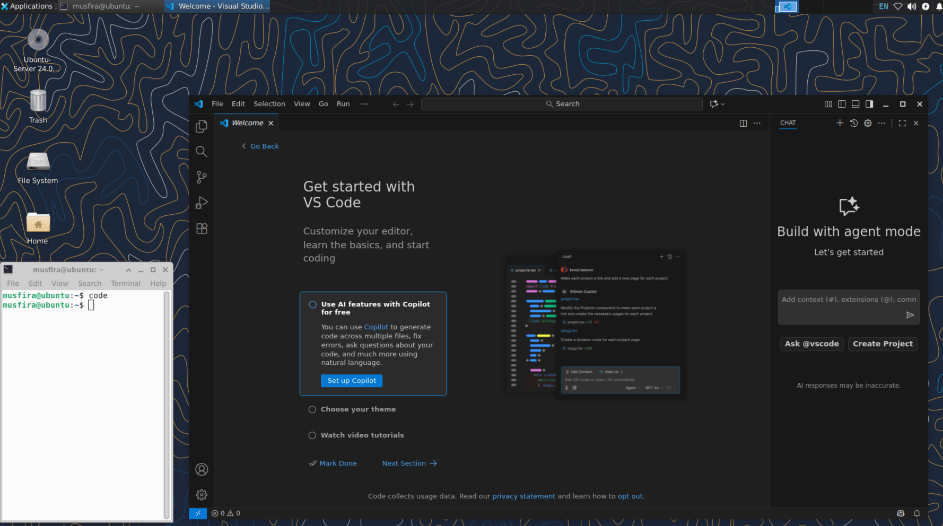
Stopping GUI Manually



GUI Start Command Displayed

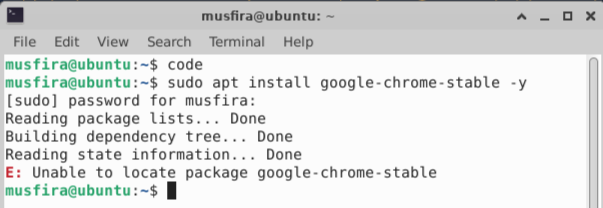


Launching VS Code from GUI

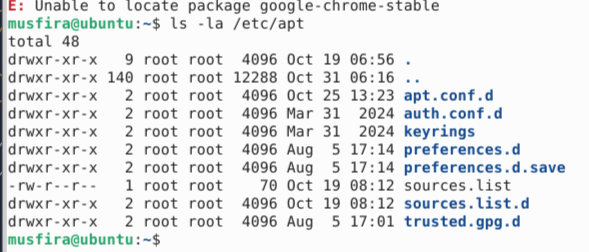


**Task 7**

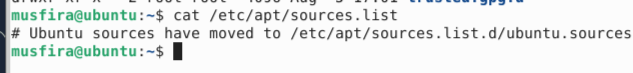
Chrome Install Error Message



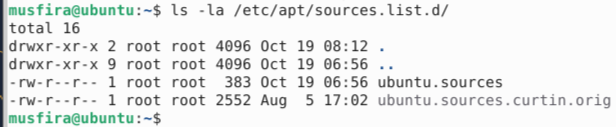
Listing apt Directory Contents



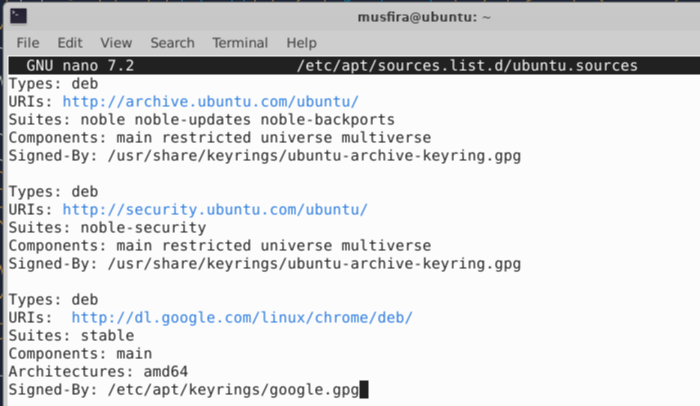
Viewing sources.list File



Viewing sources.list.d Directory



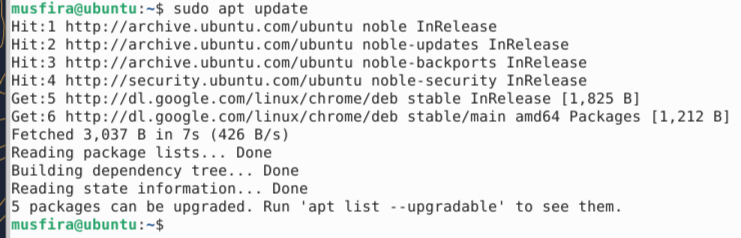
Editing ubuntu.sources to Add Chrome Stanza



Adding Google Signing Key



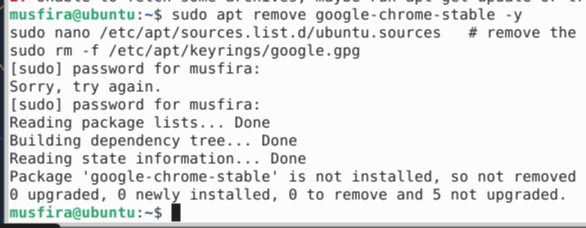
Updating Packages



Installing Google Chrome



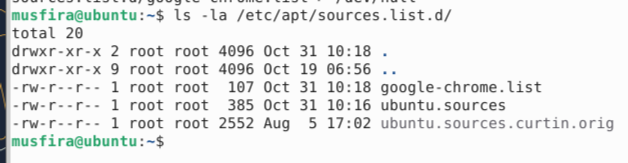
Removing Chrome Package



Editing File to Remove Chrome Stanza



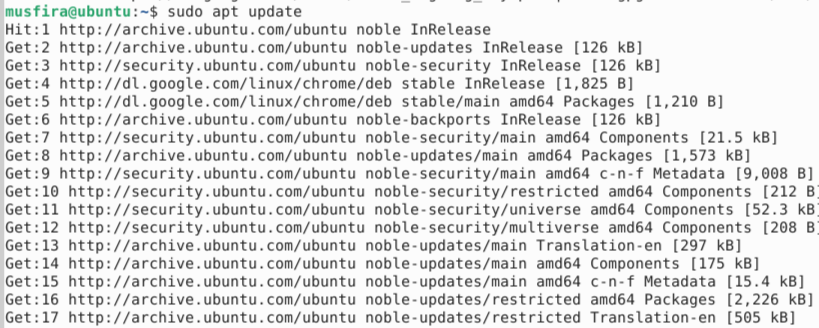
Removing Google Key



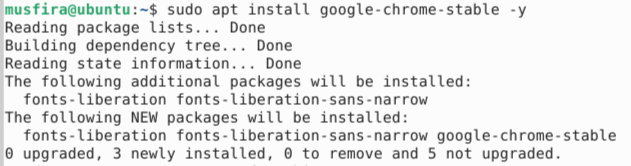
Creating google-chrome.list File



Verifying sources.list.d Directory After Creation

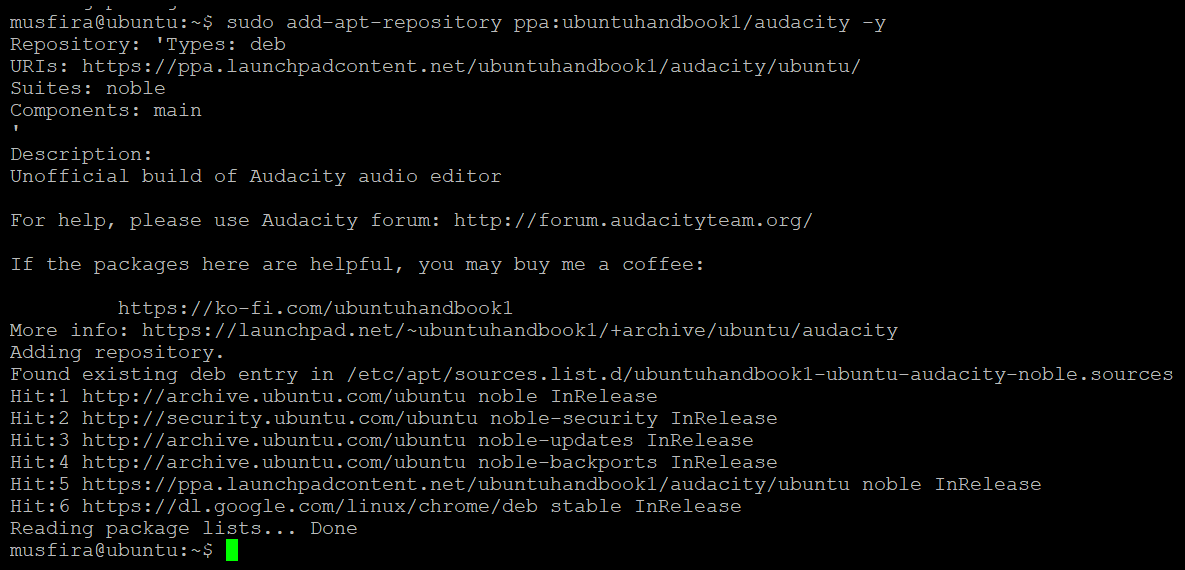


Final Chrome Installation Success

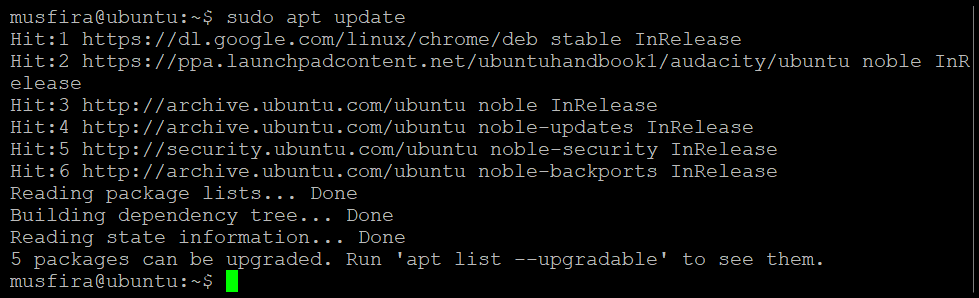


**Task 8**

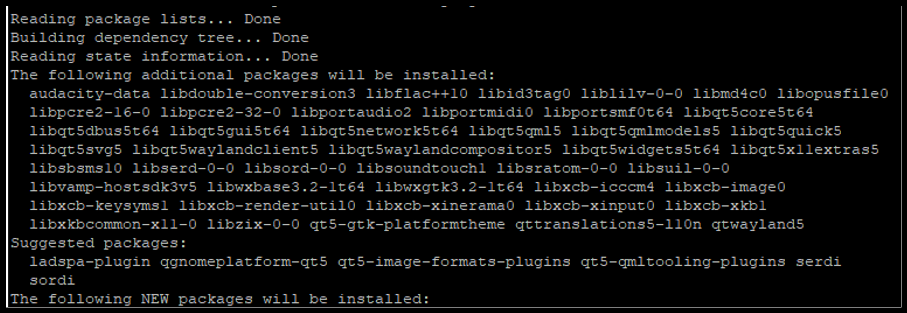
Adding Audacity PPA



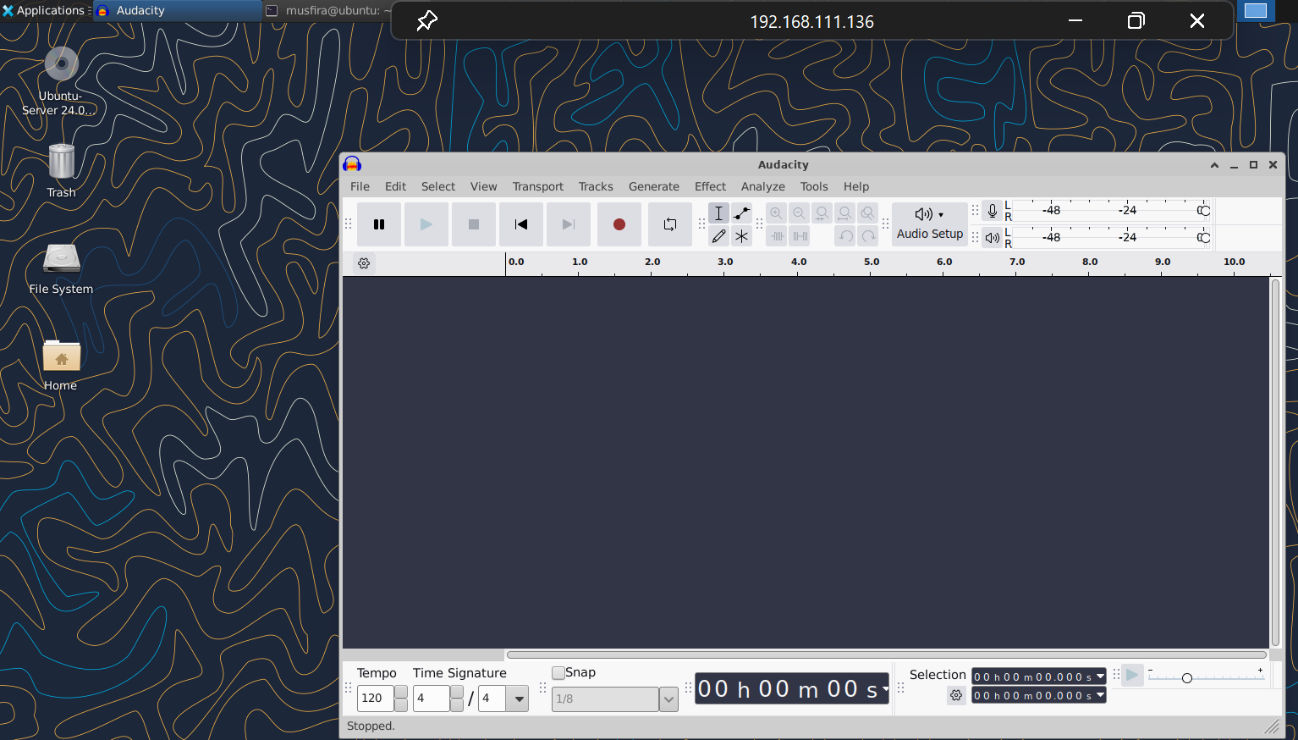
Updating Repositories for Audacity



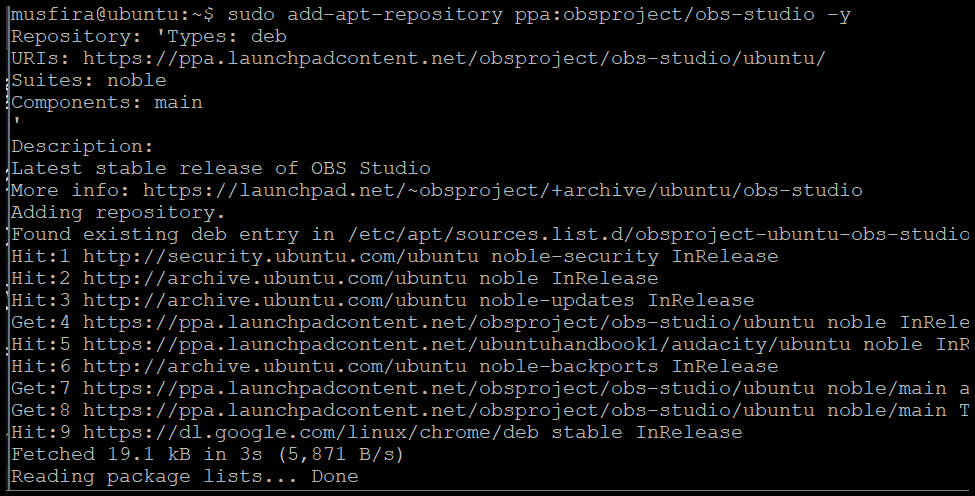
Installing Audacity



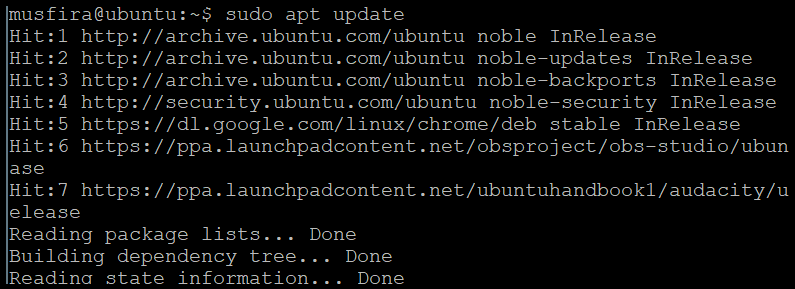
Launching or Verifying Audacity



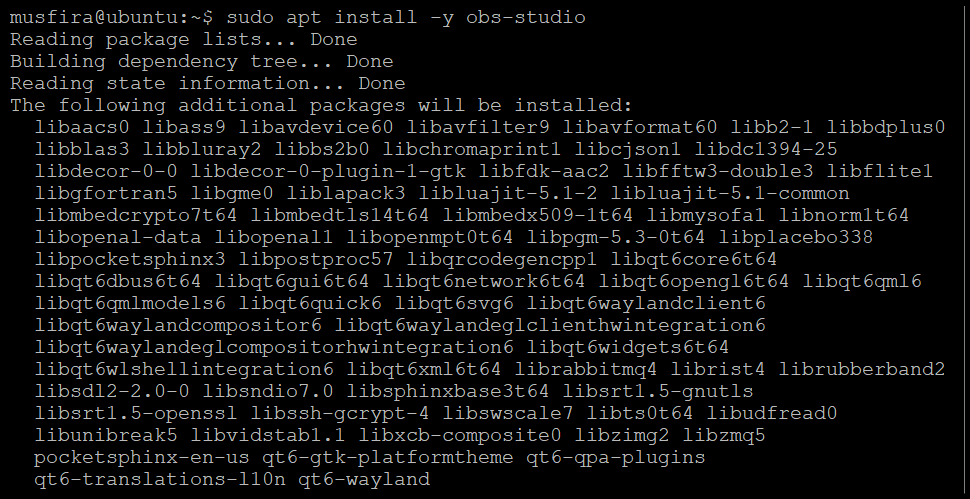
Adding OBS PPA



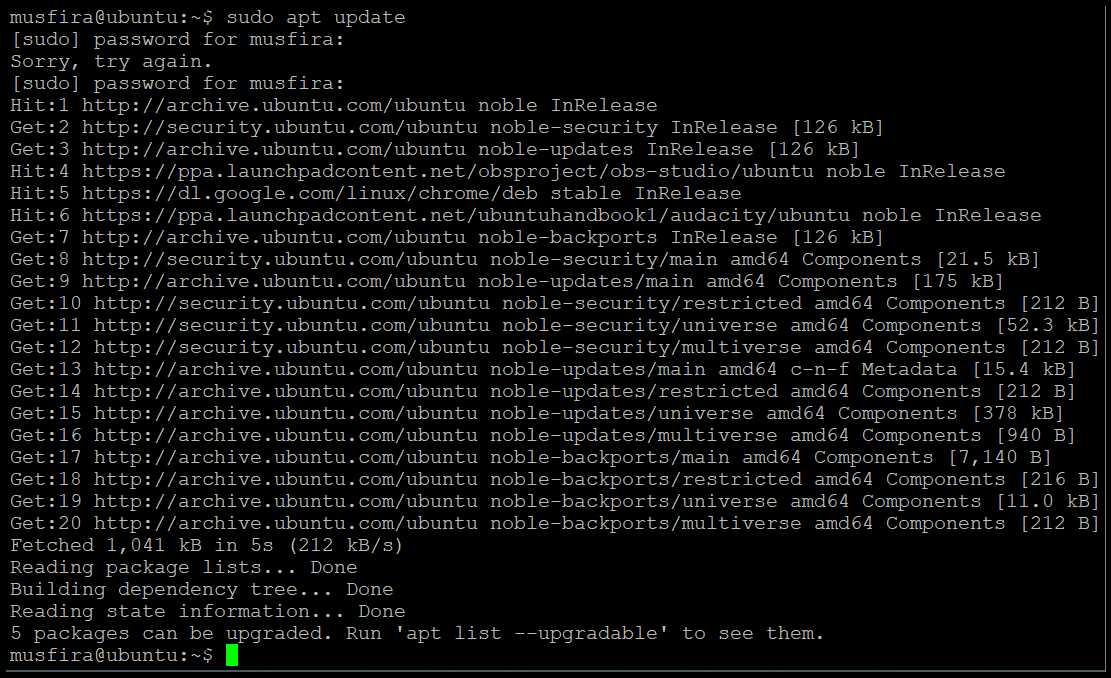
Updating Repositories for OBS



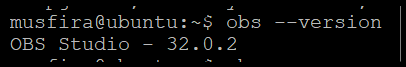
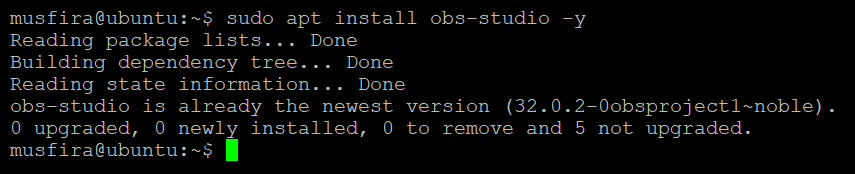
Installing OBS Studio



Updating again

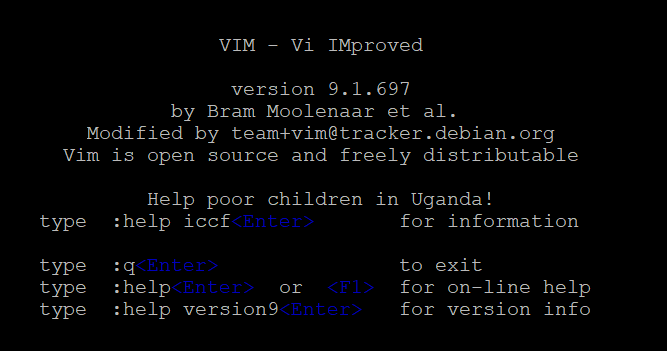


Launching or Verifying OBS Studio

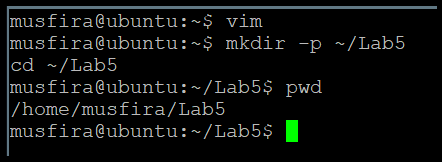


**Task 9**

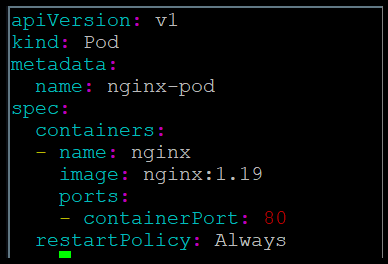
Checking Vim Installation



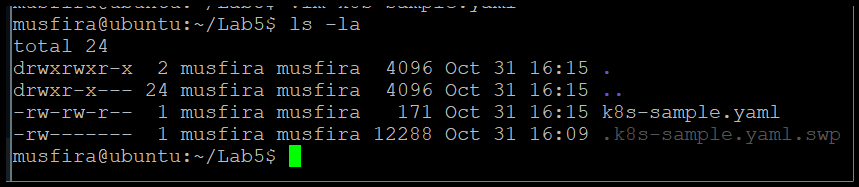
Creating Lab5 Directory and Navigating



Editing k8s-sample.yaml in Vim



Verifying YAML File Saved

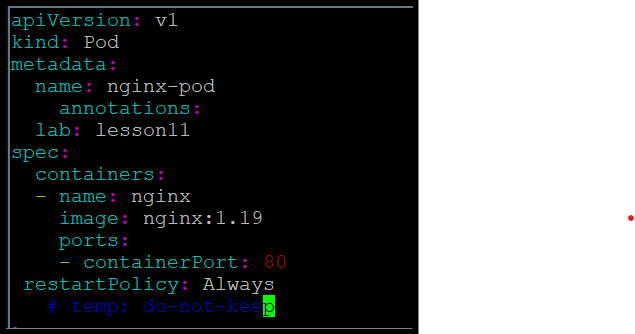


**Task 10**

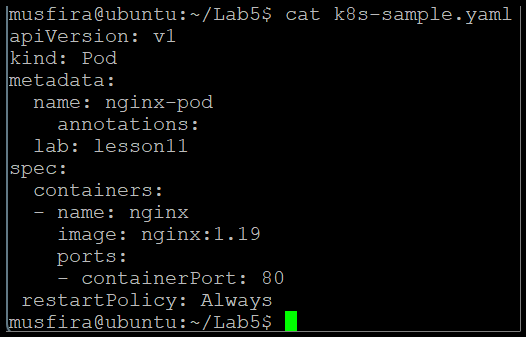
YAML File After Adding Annotation



Temporary Edit in Vim (Before Discarding)

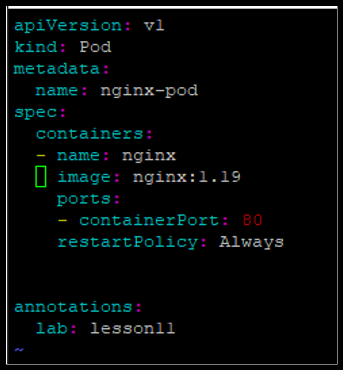


File After Discarding Temporary Changes

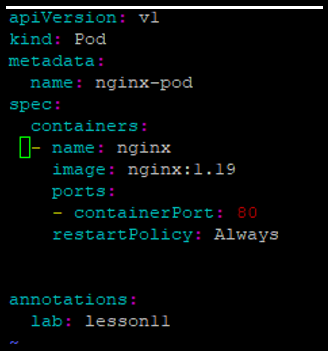


**Task 11**

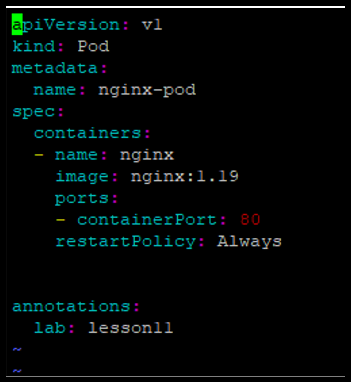
Deleting a Line and Undoing



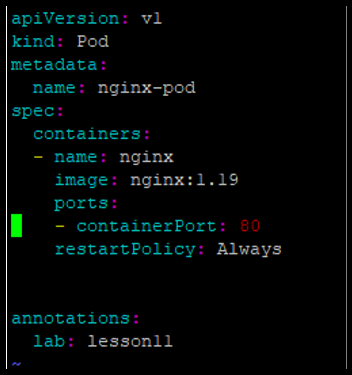
Deleting 3 Lines and Undoing



Navigating to Line 1

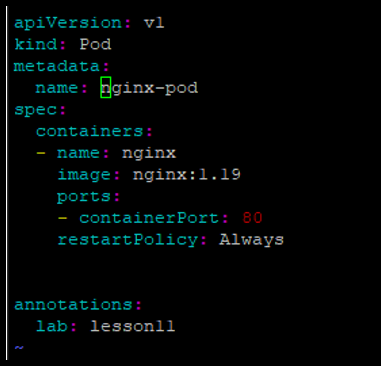


Navigation Between Line Ends

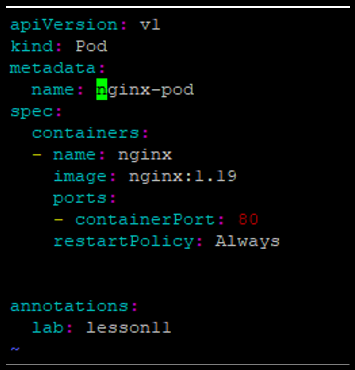


**Task 12**

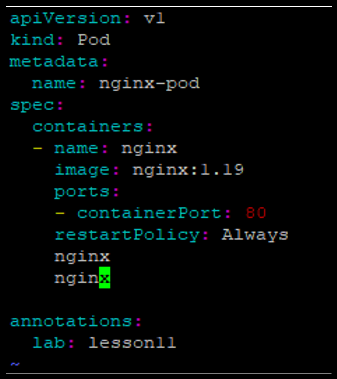
Searching for “nginx”



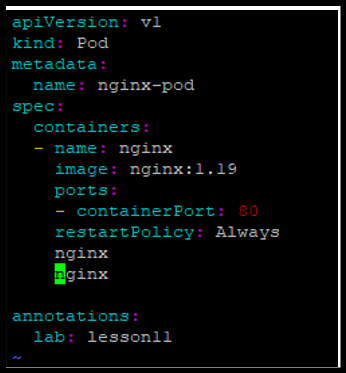
Navigating Matches with n / N



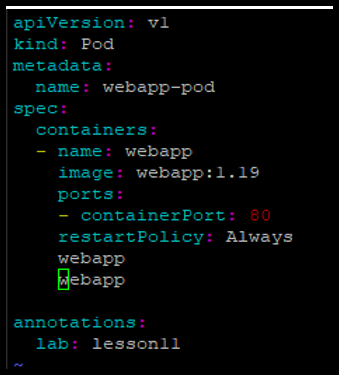
Adding Extra “nginx” Occurrences



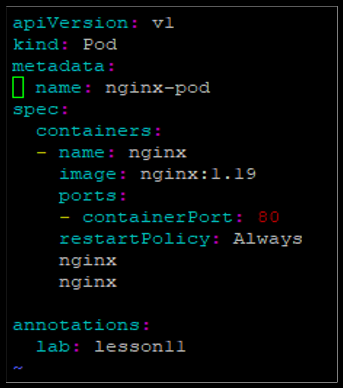
Navigating Between Matches



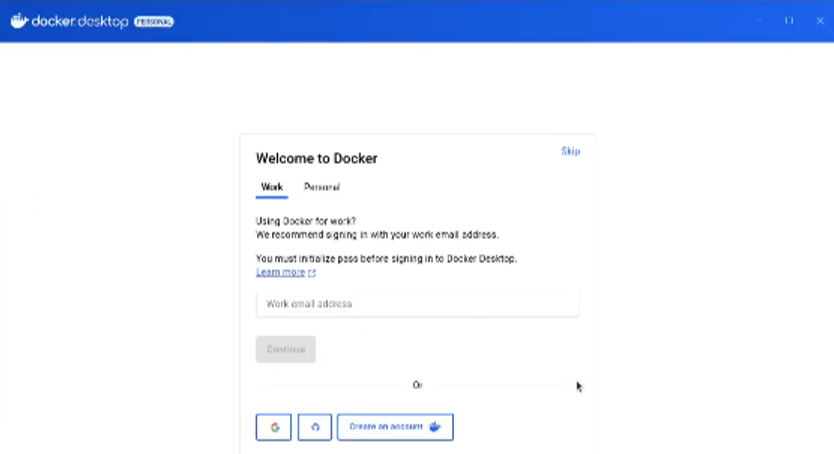
Substituting nginx → webapp

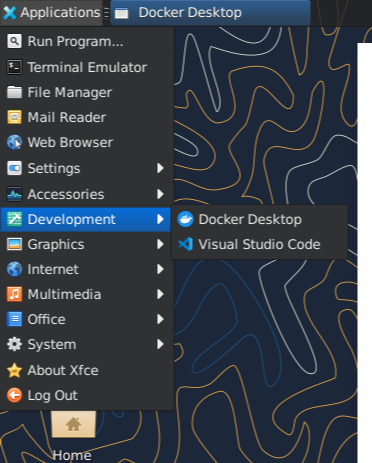


Undoing Substitution



**Exam Evaluation**

****Docker Desktop Successfully Installed

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