**LAB NO 5**

**SUBMITTED BY:**

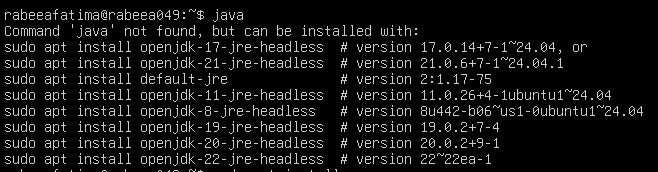
**RABEEA FATIMA  
REGISTRATION NO: 2023-BSE-049**

**SECTION: B  
SUBJECT: CLOUD COMPUTING**

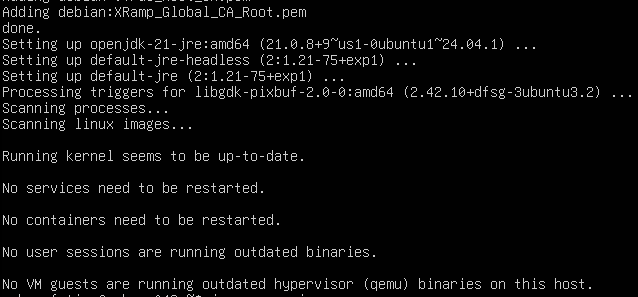
**TASK 01:**

**Discover missing commands & install Java.**

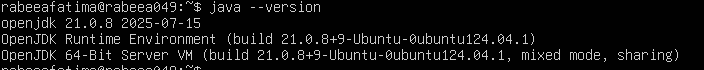
Step 1: Run Java command



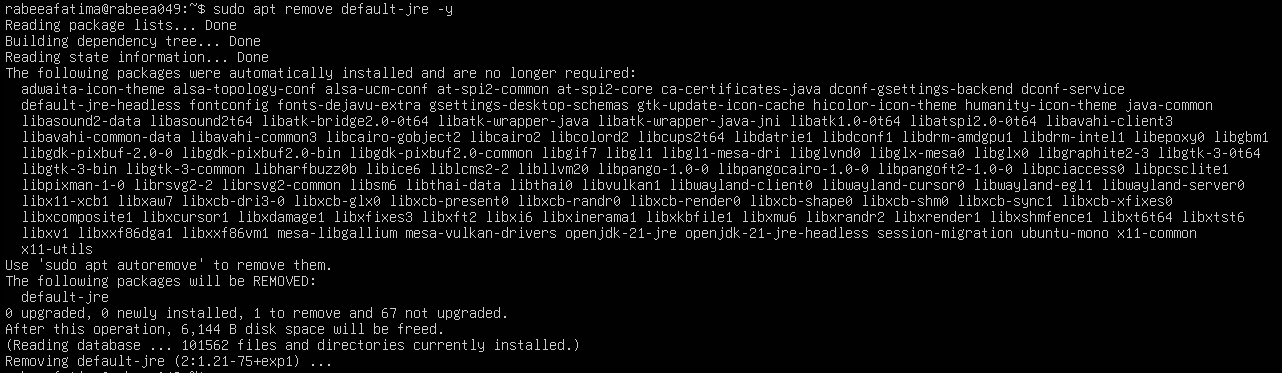




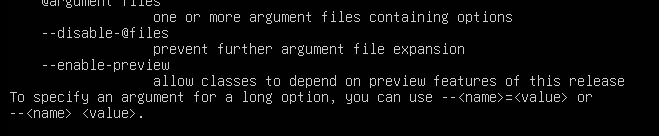
Step 2: Check for Java version installed



Step 3: Remove the Java packet.



Step 4: Confirm Java is no longer available.



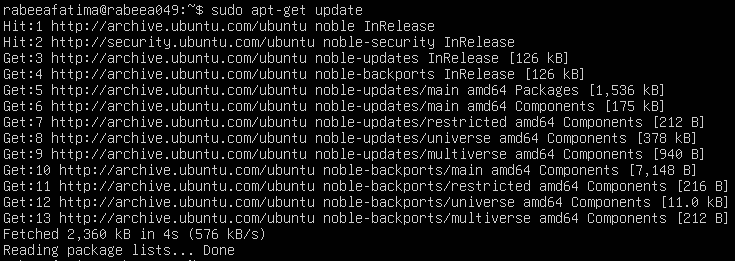
Step 5: Clear shell’s cache.



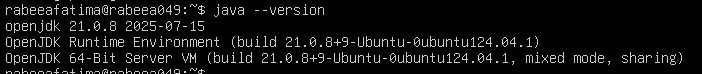
**TASK 02:**

**Install & remove Java explicitly.**

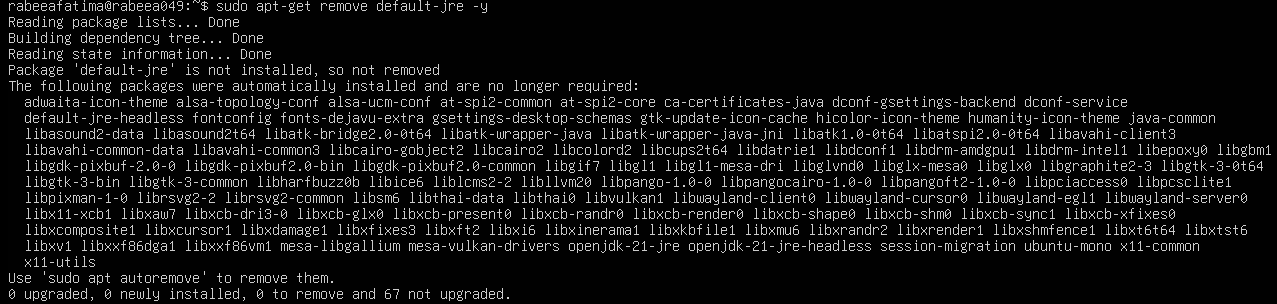
Step 1: Install Java using apt-get command.



Step 2: Verify Java version again.



Step 3: Remove Java.



Step 4: Clear cache and confirm java.

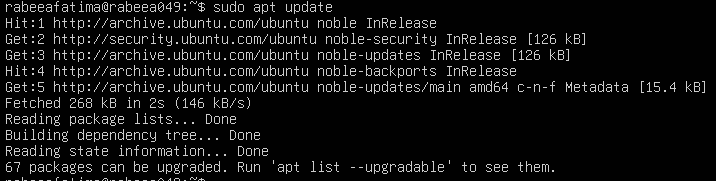




**TASK 03:**

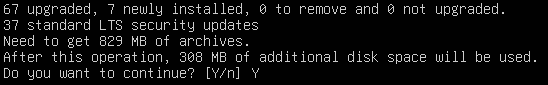
**Apt upgrade vs apt update.**

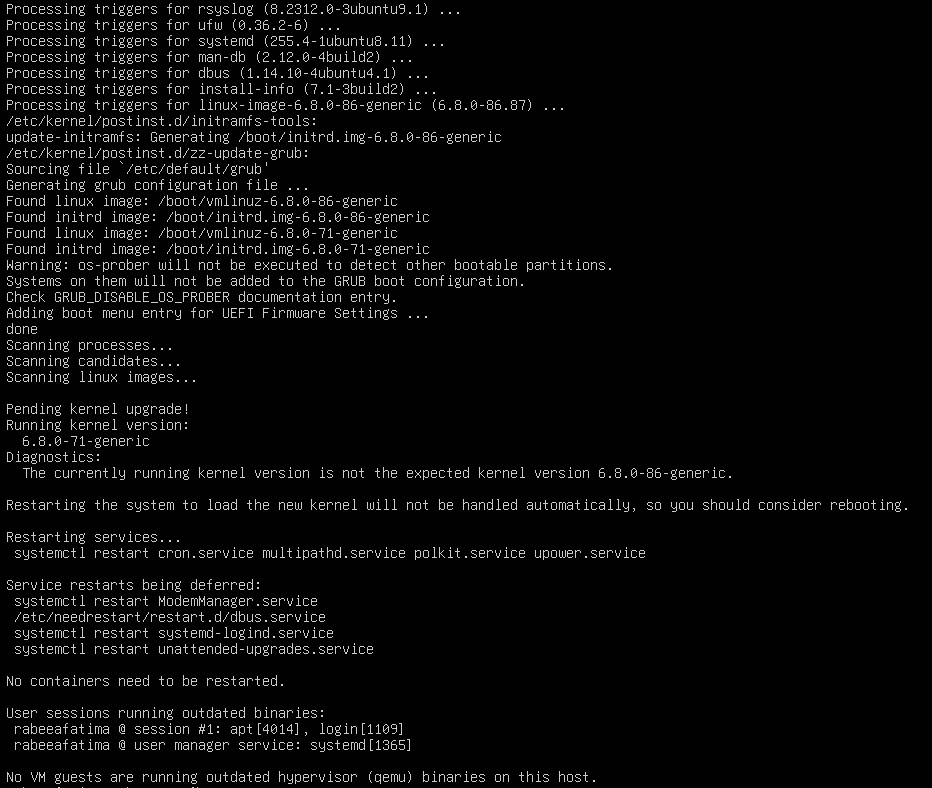
Step 1: Update the package index.



Step 2: Upgrade installed packages.

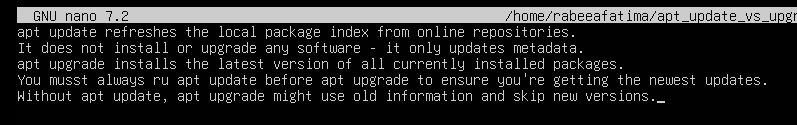






Step 3: Write lines in nano.

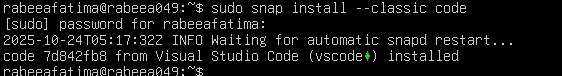




**TASK 04:**

**Install VS code via snap on CLI.**

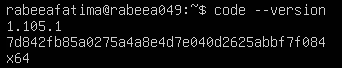
Step 1: Install VS code.



Step 2: Verify snap showing package is installed.



Step 3: Check the installed application’s version.



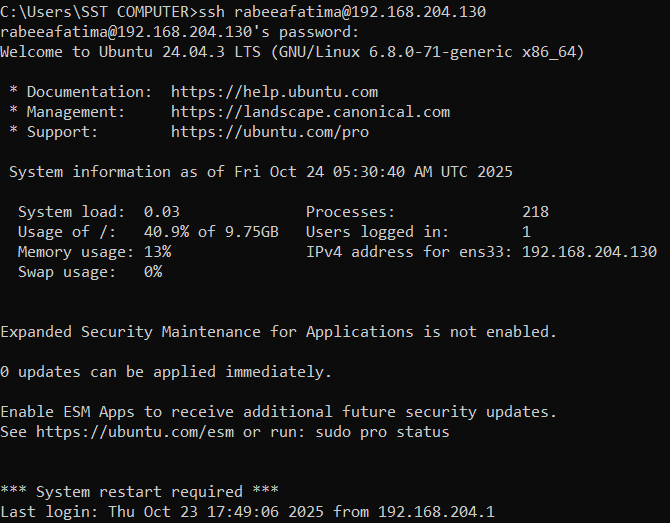
Step 4: Show path.



**TASK 05:**

**Install XFCE GUI + XRDP.**

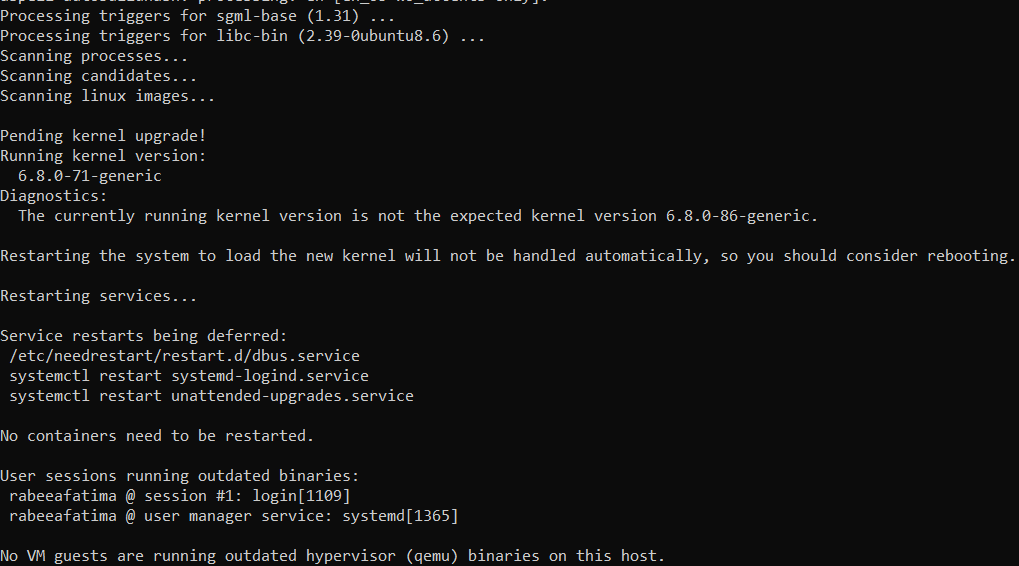
Step 1: Connect in Command Prompt.



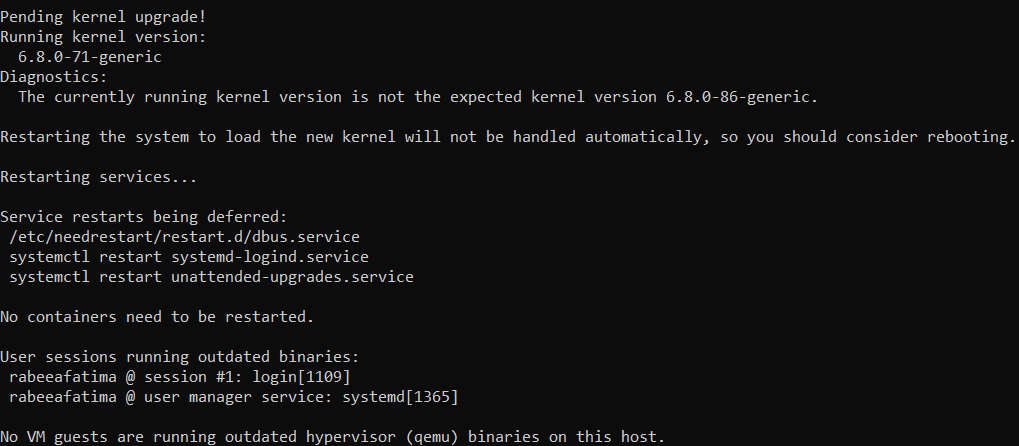
Step 2: Update the server.



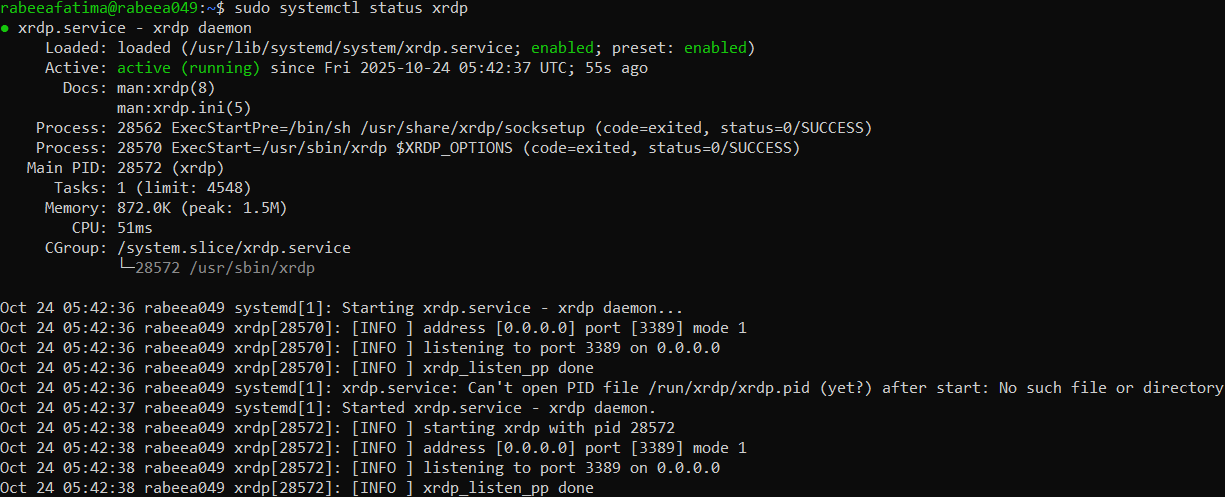
Step 3: Install XFCE & its goodies.



Step 4: Install and enable XRDP.



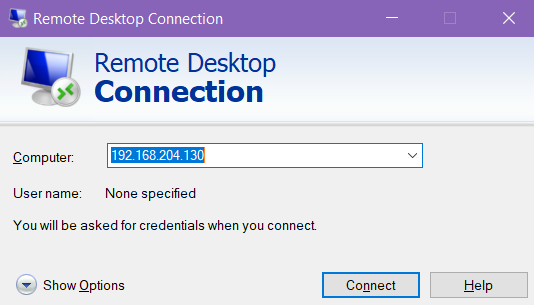
Step 5: Verify XRDP status.



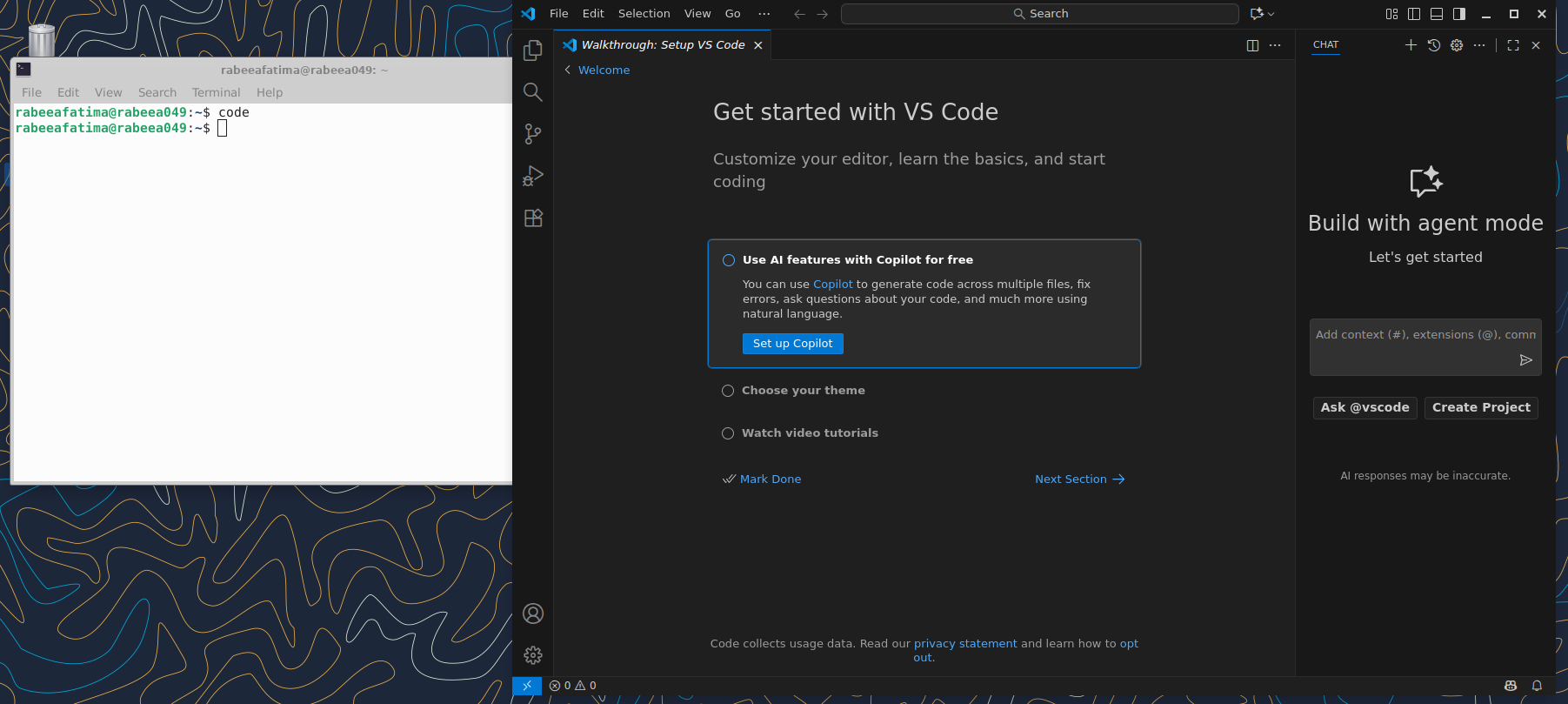
Step 6: Configure XRDP.

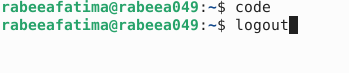


Step 7:





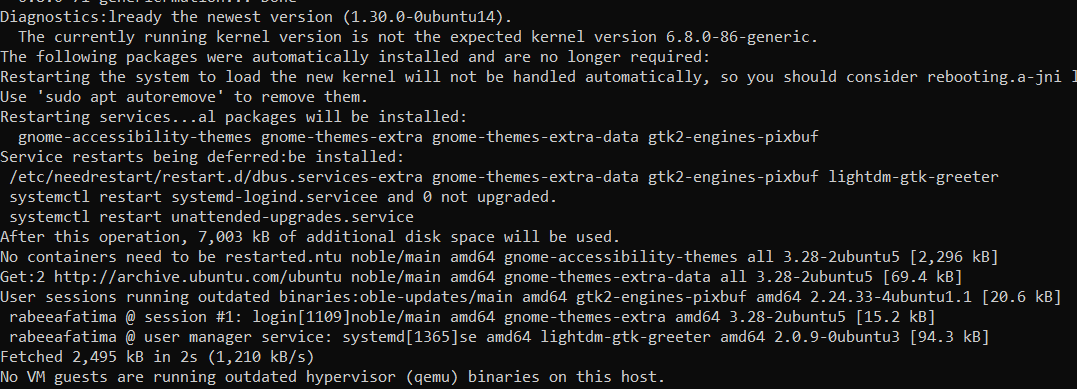




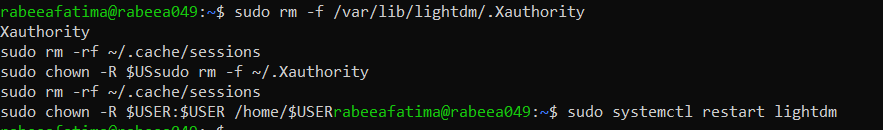
**TASK 06:**

**Install lightdm-gtk-greeter.**

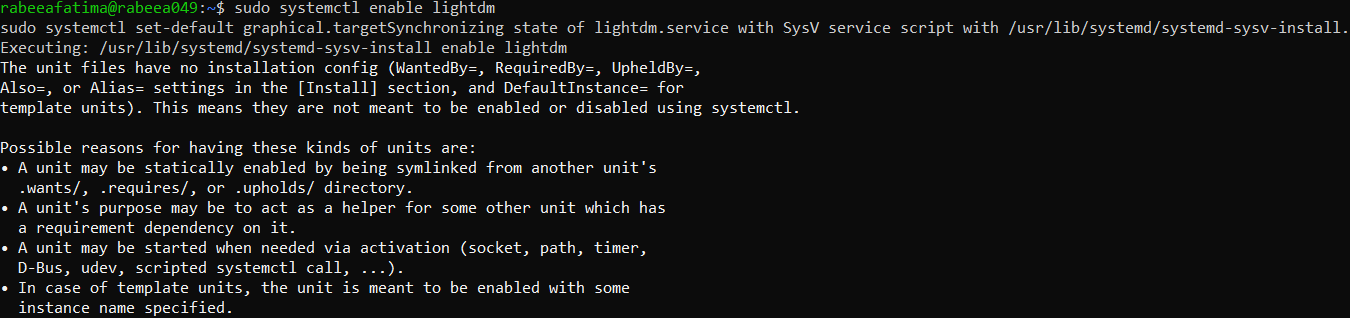
Step 1: Fix GUI login issue.

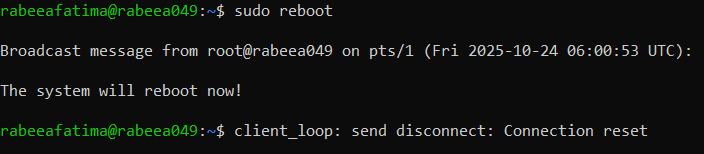


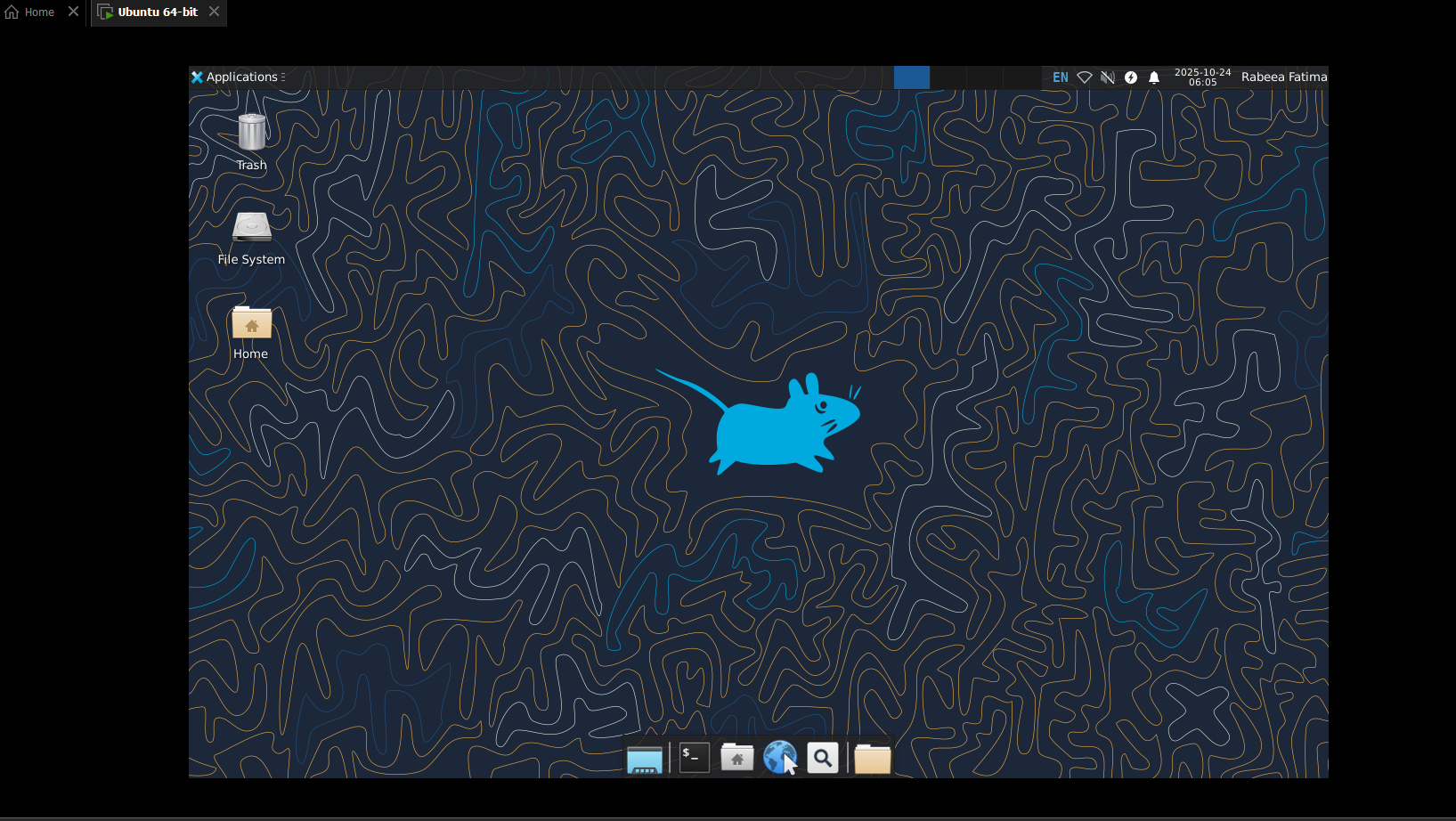


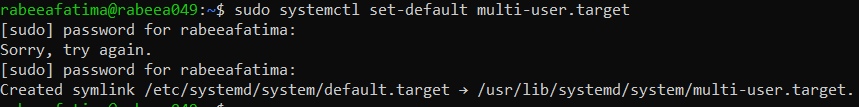


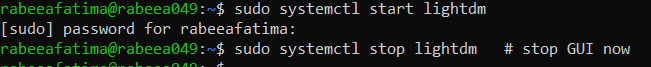
Step 2: Control GUI at boot.



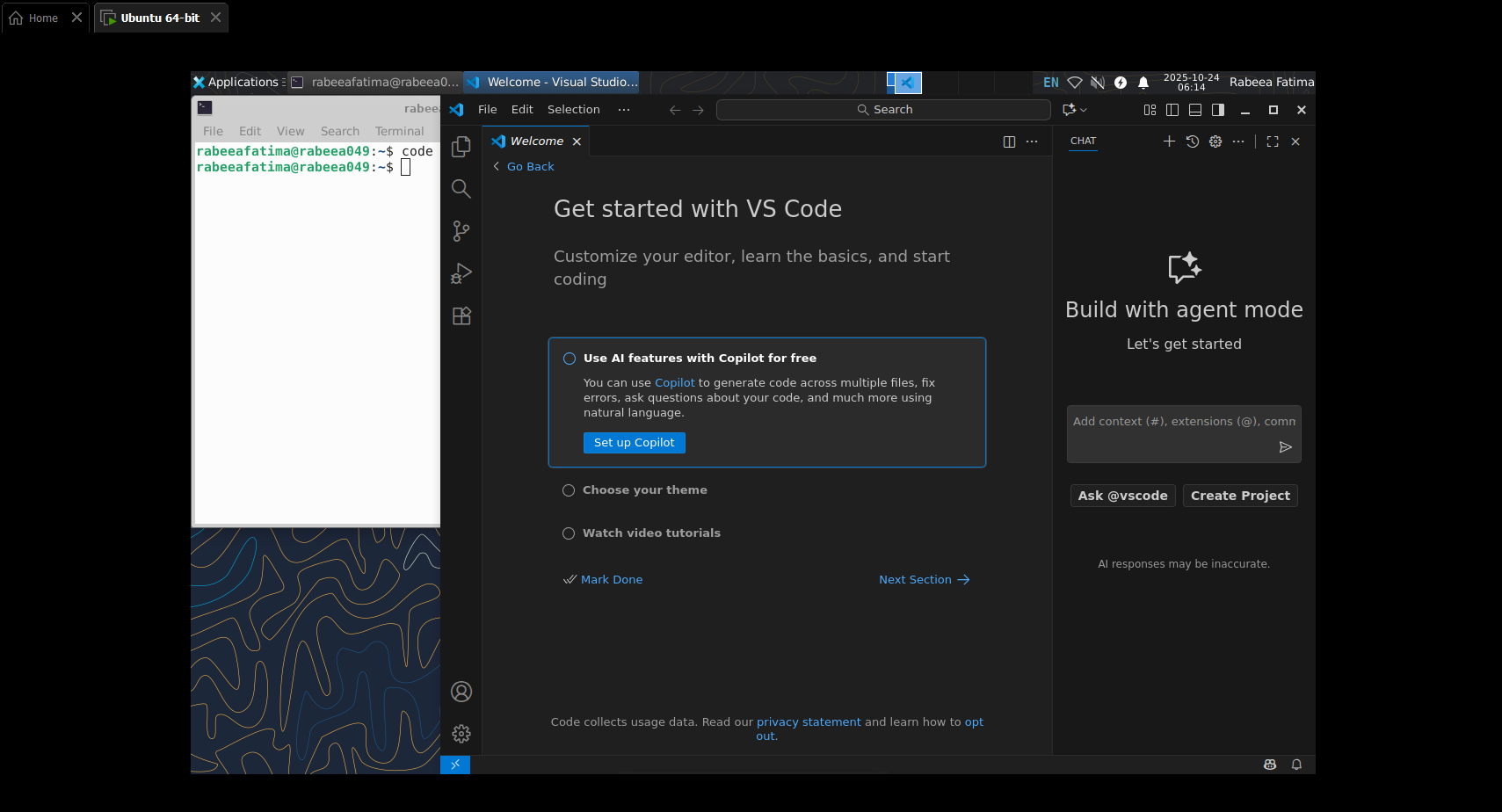








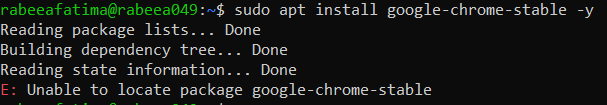
Step 3: Start the GUI and code.



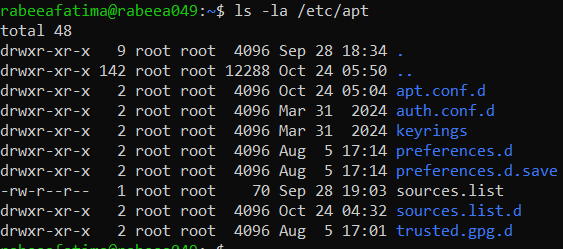
**TASK 07:**

**Install Google Chrome by its apt code & key.**

Step 1: Attempt to install directly.



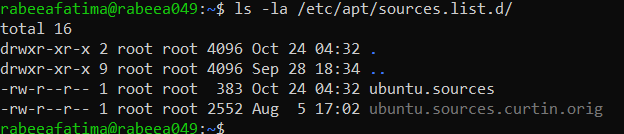
Step 2: Save apt configuration.



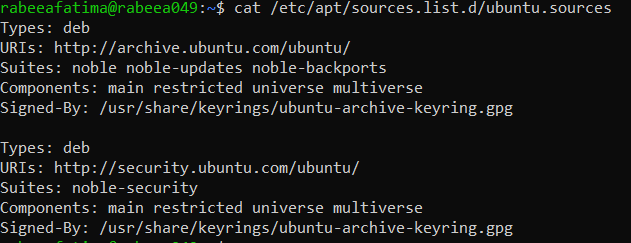
Step 3: View the main.



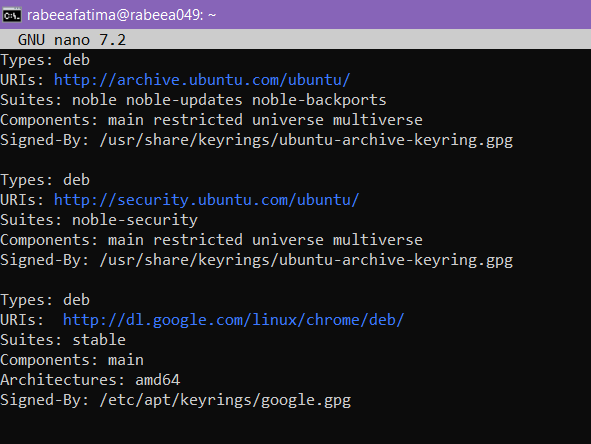
Step 4: List files.



Step 5: Display where file is present.



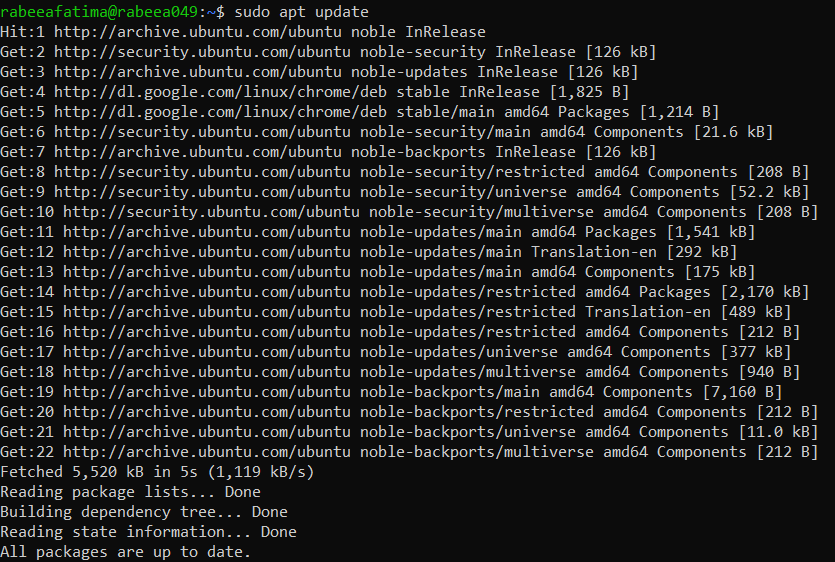
Step 6: Add Chrome repo metadata.

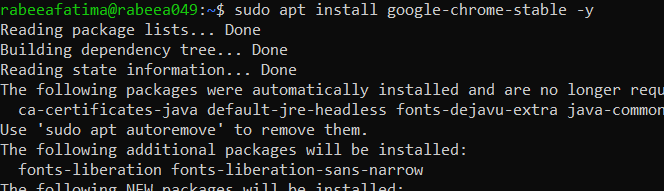


Step 7: Ensure directory exists.

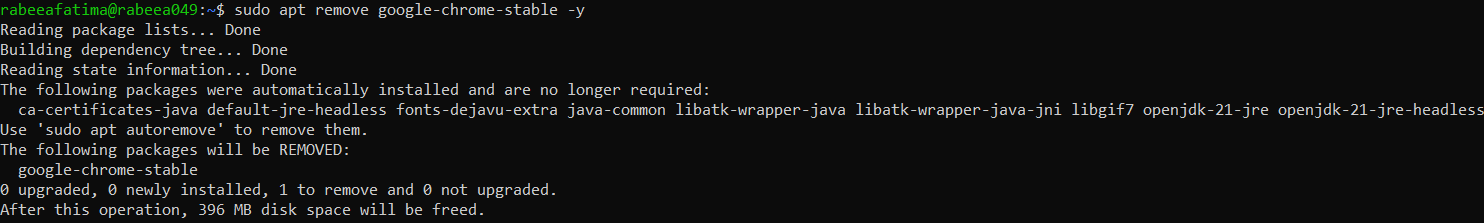


Step 8: Update apt and install chrome again.





Step 9: Cleanup.

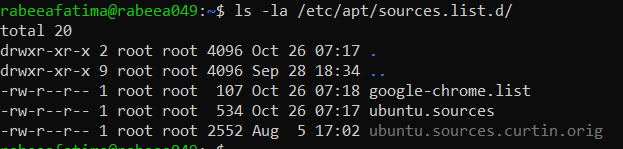




Step 10: Create a dedicated one-line list.



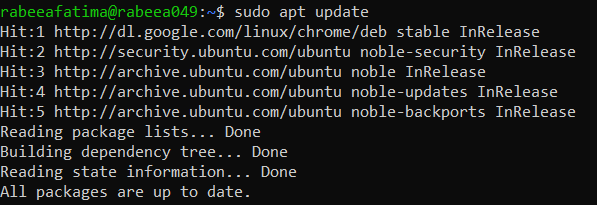
Step 11: Verify the new file exist.

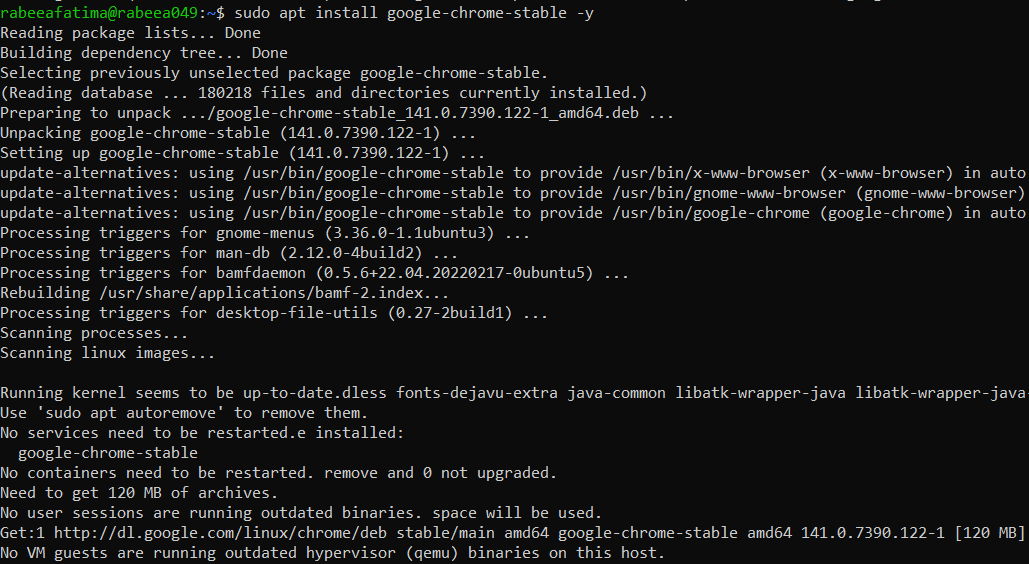


Step 12: Readding the google signing key.



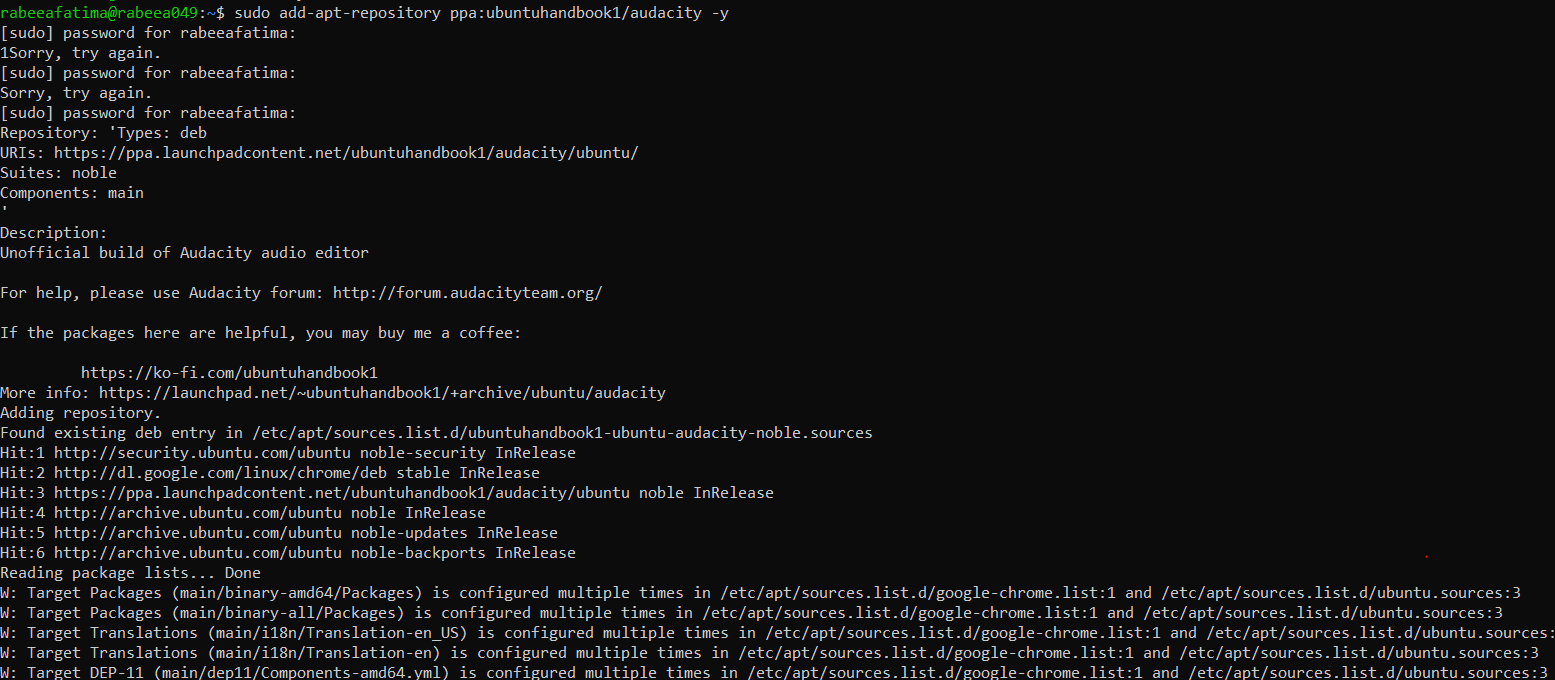
Step 13: Update apt and install Chrome.

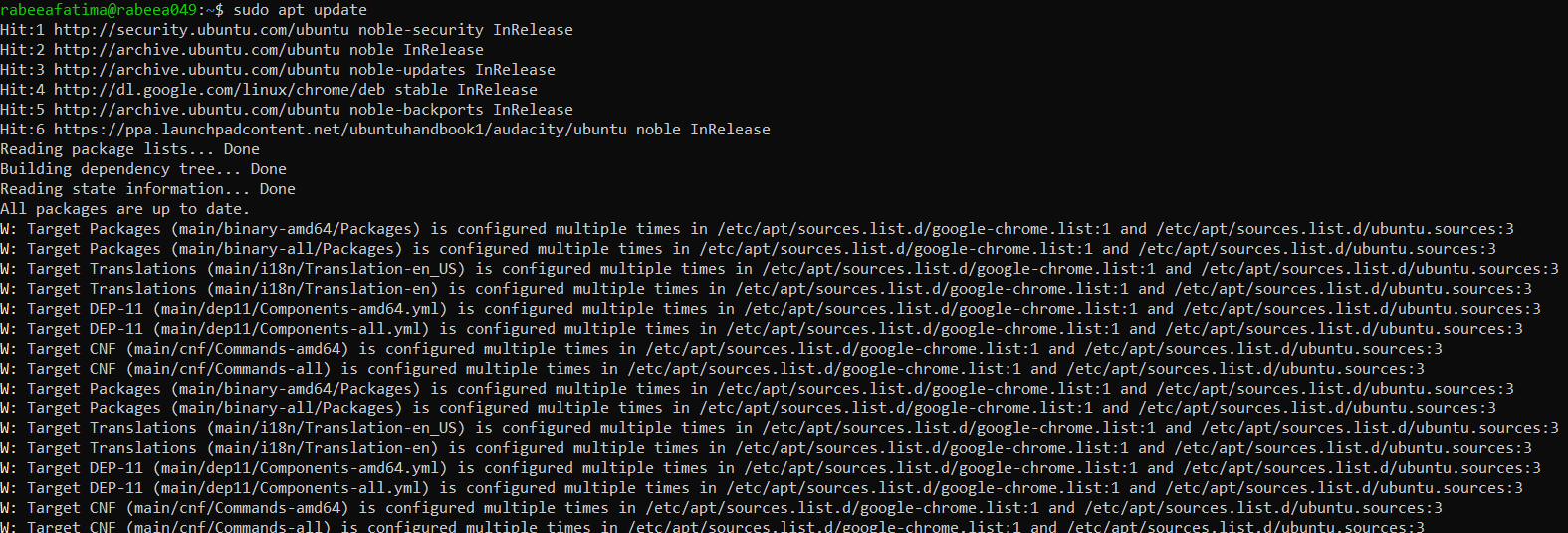


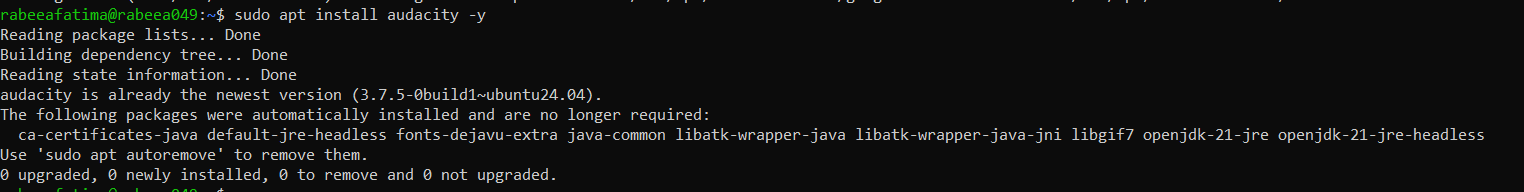


**TASK 08:**

**Install applications via PPA.**

Step 1: Add Audacity PPA. 

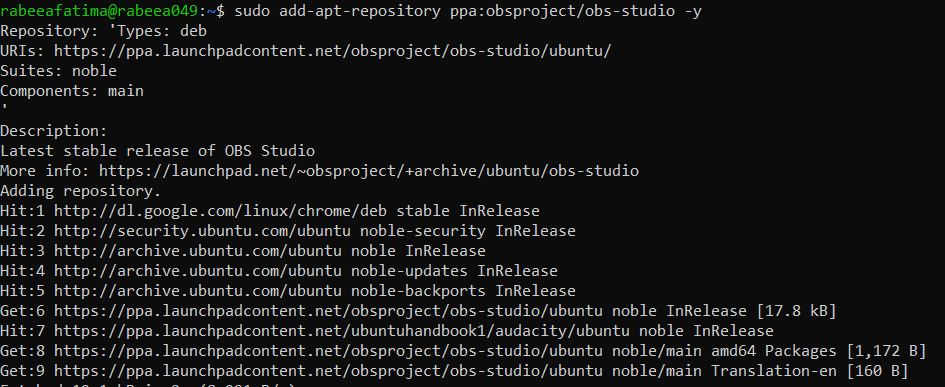


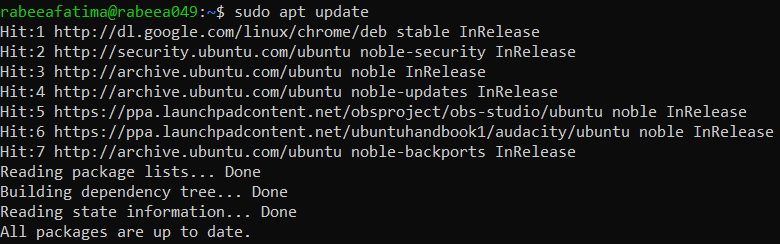


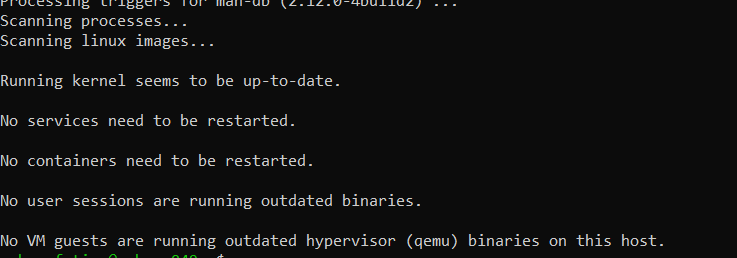
Step 2: Launch Audacity.



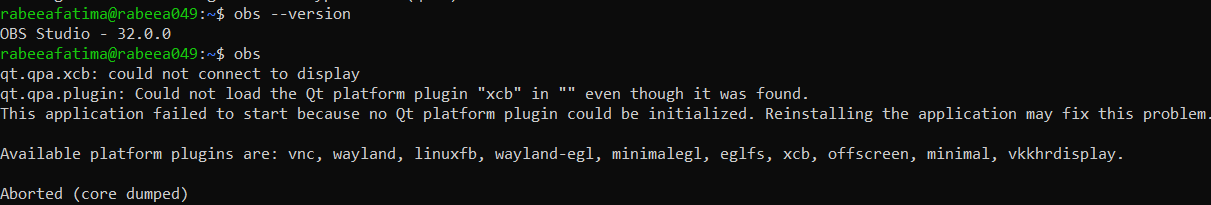
Step 3: Add the OBS studio PPA.







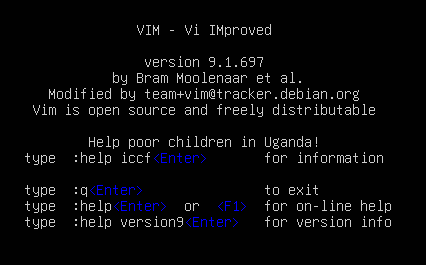
Step 4: Launch OBS Studio.oml

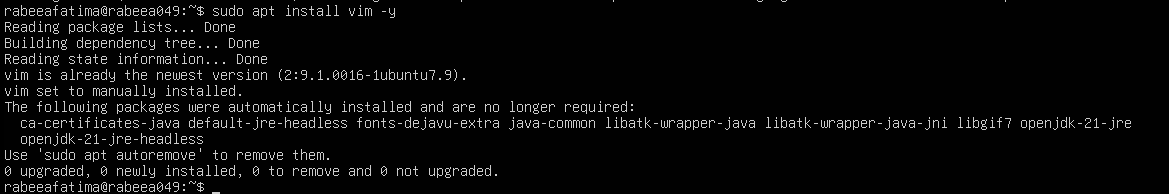


**TASK 09:**

**Create a Kubernetes sample YAML using vim.**

Step 1: Check vim.





Step 2: Create Lab5 working directory.



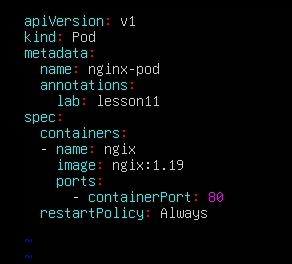
Step 3: Create Kubernetes file.

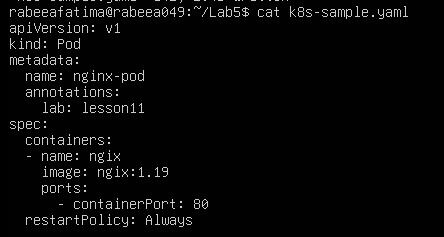


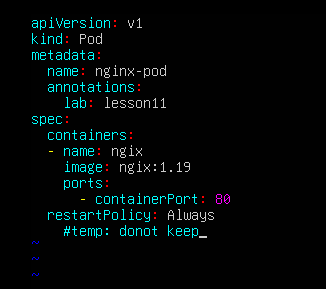


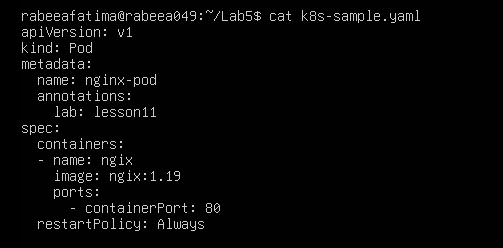
**TASK 10:**

**Edit the Kubernetes YAML.**



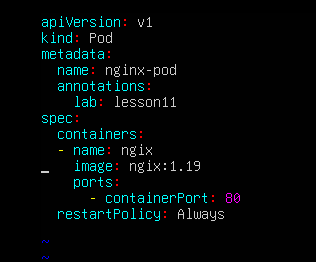


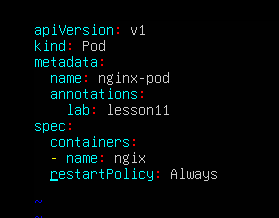


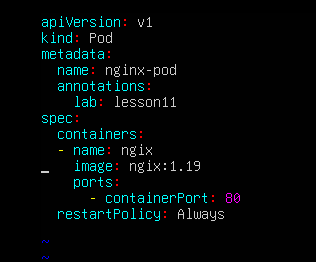


**TASK 11:**

**Vim editing practice.**





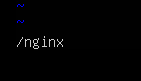


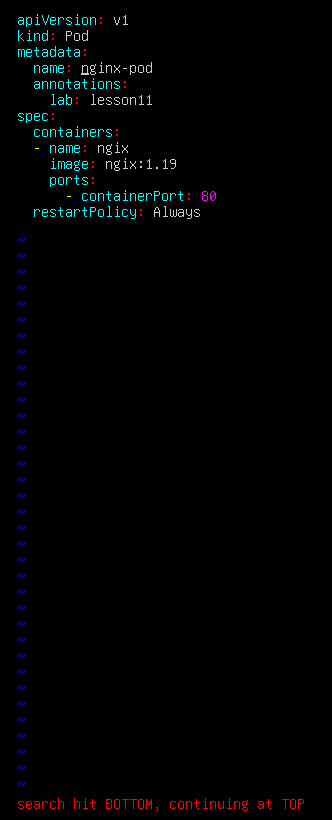


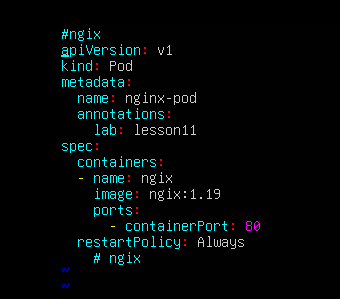


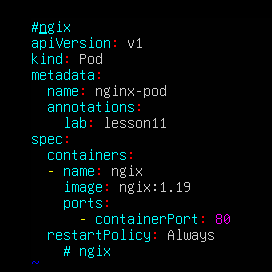
**TASK 12:**

**Vim search, add matches, substitute, undo.**

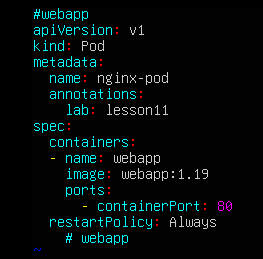












**EXAM EVALUATION QUESTION**

Step 1: Install Docker engine.

