



BAHIRDAR UNIVERSITY INSTITUTE OF TECHNOLOGY

SOFTWARE ENGINEERING OPERATING SYSTEM INDIVIDUAL ASSIGNMENT

**Documentation for Installation of Raspberry Pi Os in
aVirtual Environment(VMware workstation)**

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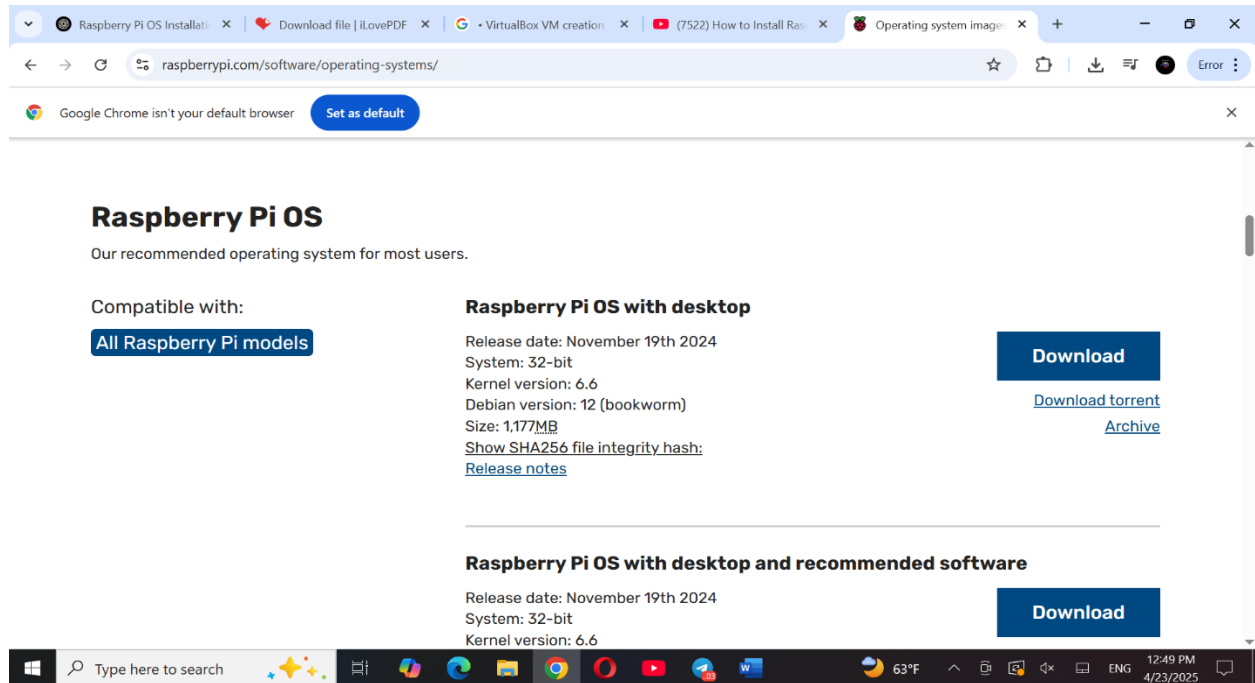
Installation Steps

1, Step 1: Download Required Files

- Visit the official Raspberry Pi website:

<https://www.raspberrypi.com/software/operating-systems/>

- Download the Raspberry Pi OS (64-bit) ISO (or 32-bit if your system is older).



Step 2: Install VMware workstation

- Download VMware workstation

from: <https://support.broadcom.com/group/ecx/downloads>

- Install it using the on-screen instructions.
- Optionally, install VirtualBox Extension Pack for additional features like USB and network support.

Step 3: Installation Wizard

Click **Next** to begin.

1. **Accept the license agreement**, then click **Next**.
2. Choose **installation options**:
 - Enable/disable product updates.
 - Choose whether to join the VMware Customer Experience Program.
3. Select the **installation directory** (default is fine for most users), then click **Next**.
4. Choose whether to create desktop/start menu shortcuts.
5. Click **Install**.

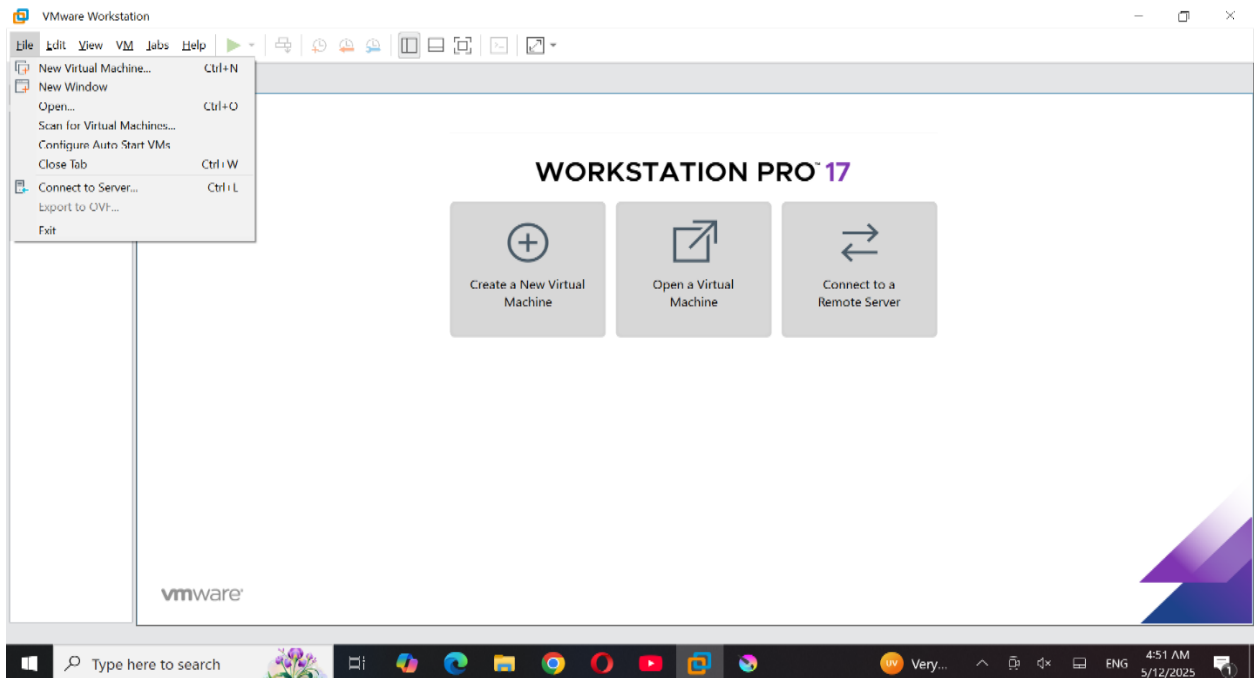
Step 4: Finish Installation

1. Wait for the installation to complete (it may take a few minutes).
2. Click **Finish** when it's done.
3. **Restart your computer** if prompted.

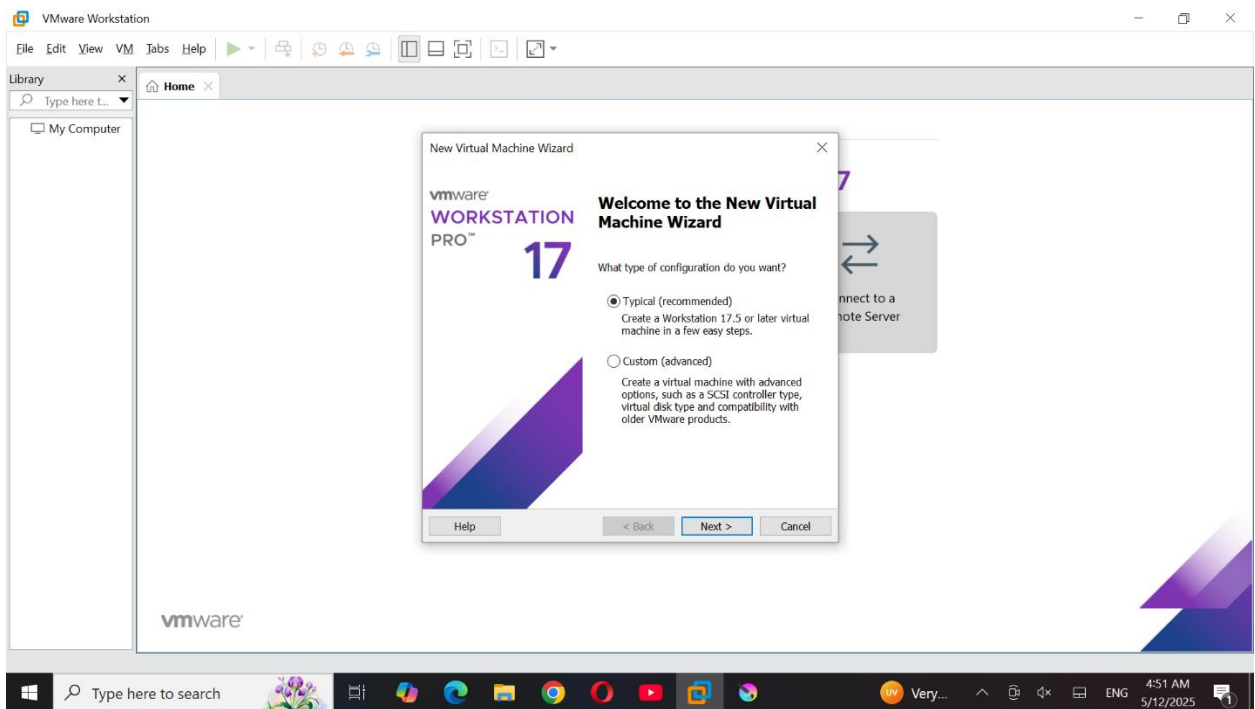
Step 5: Launch VMware Workstation

- Double-click the **VMware Workstation** icon on your desktop or search for it in the Start Menu.

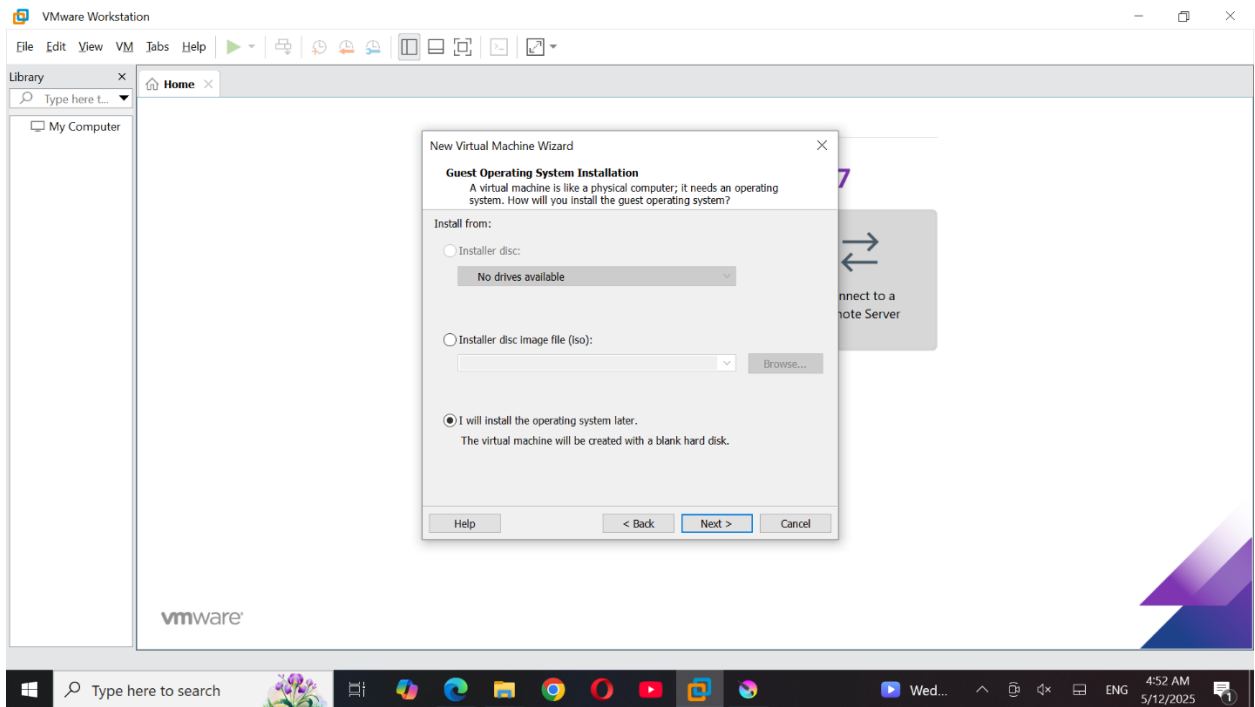
Step 6: click on new virtual machine



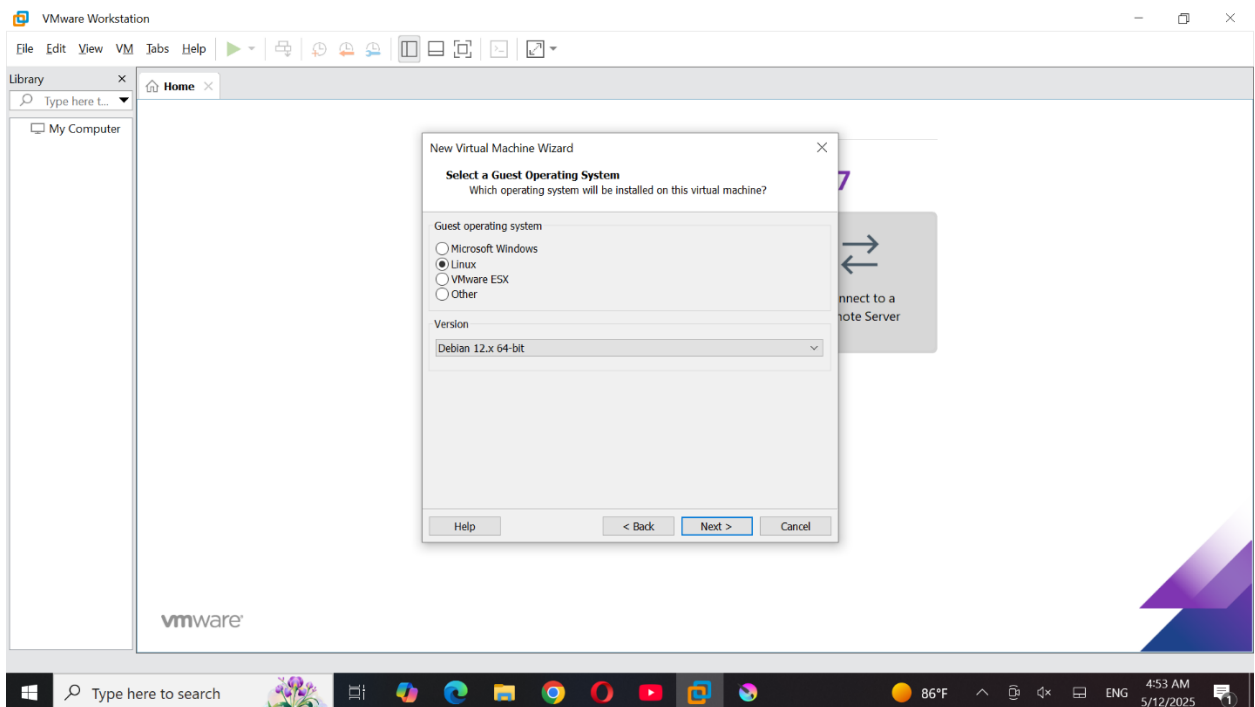
Step 7: click on next



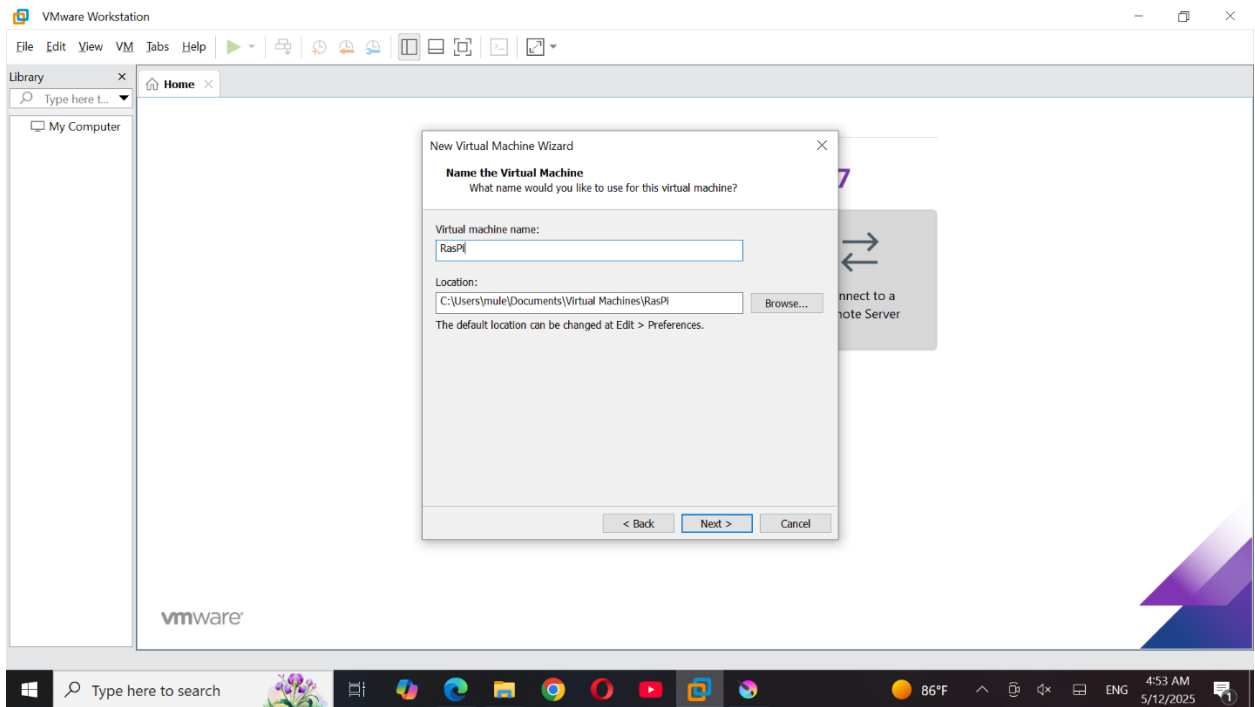
Step 8: select I will install the os later then next



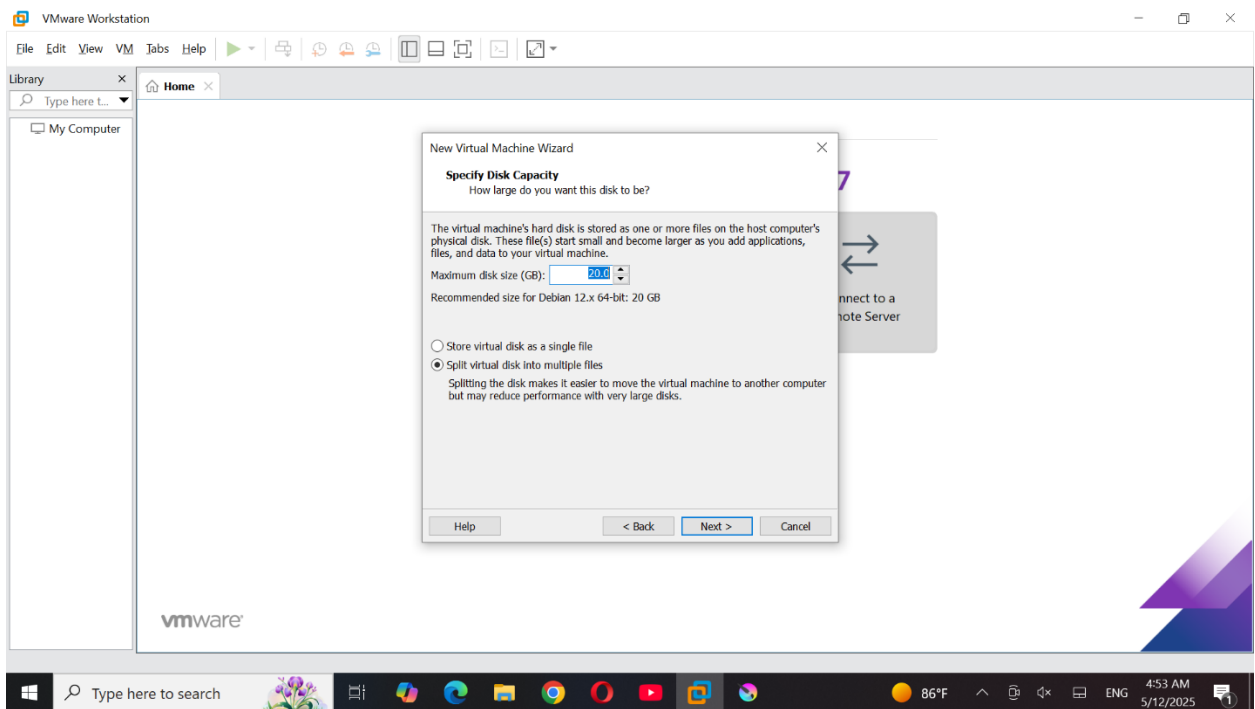
Step 9: select linux and debian12.x 64-bit then next



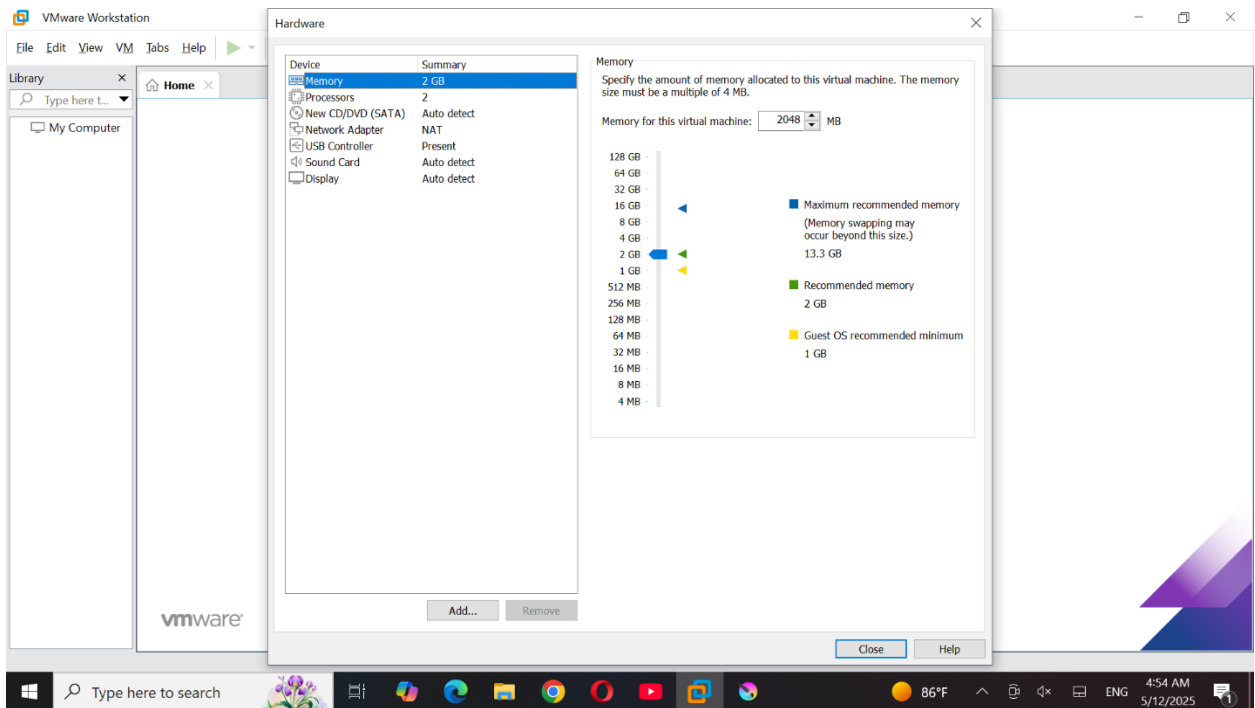
Step 10: give name RasPi then browse the file you download before and click next



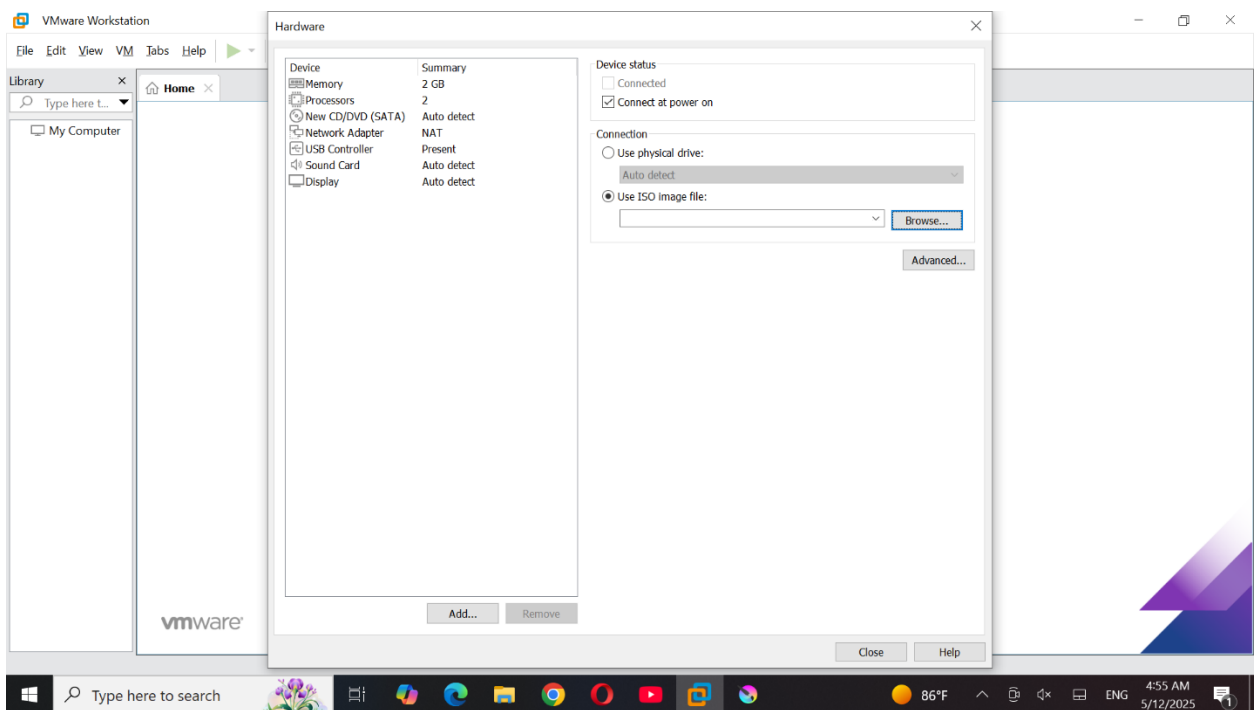
Step 11: set disk capacity and split virtual disk into multiple files



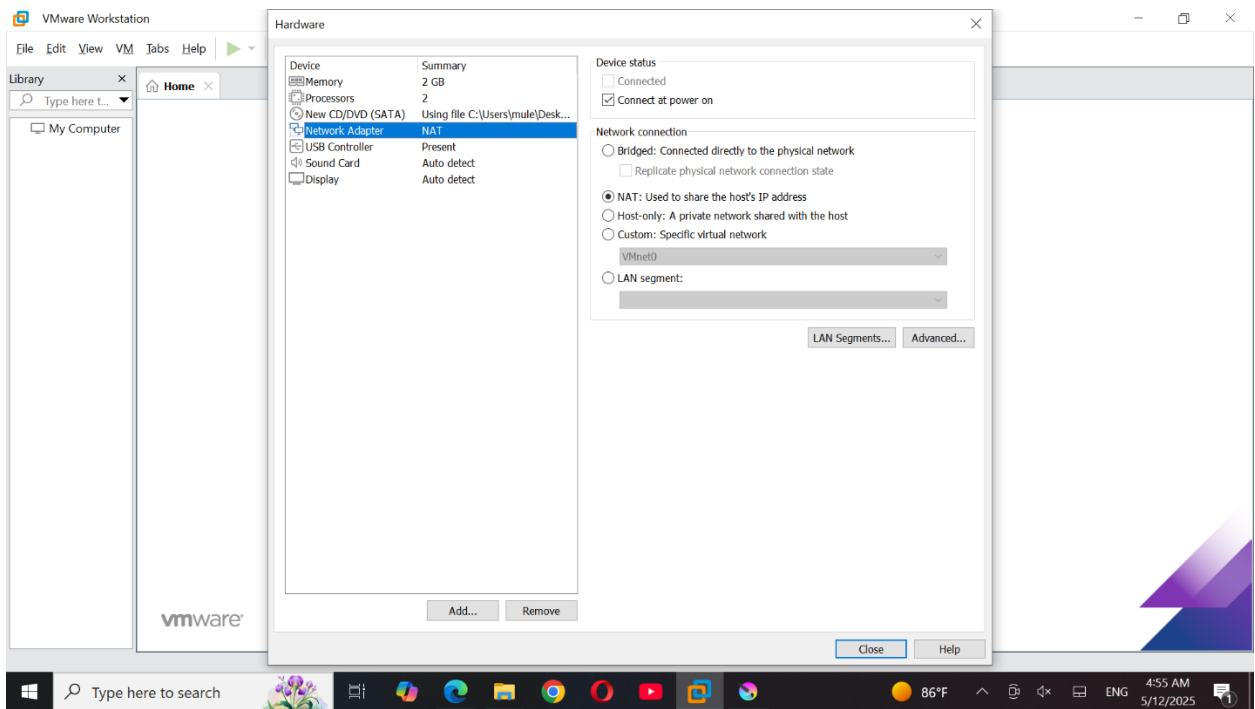
Step 12: click customize hardware



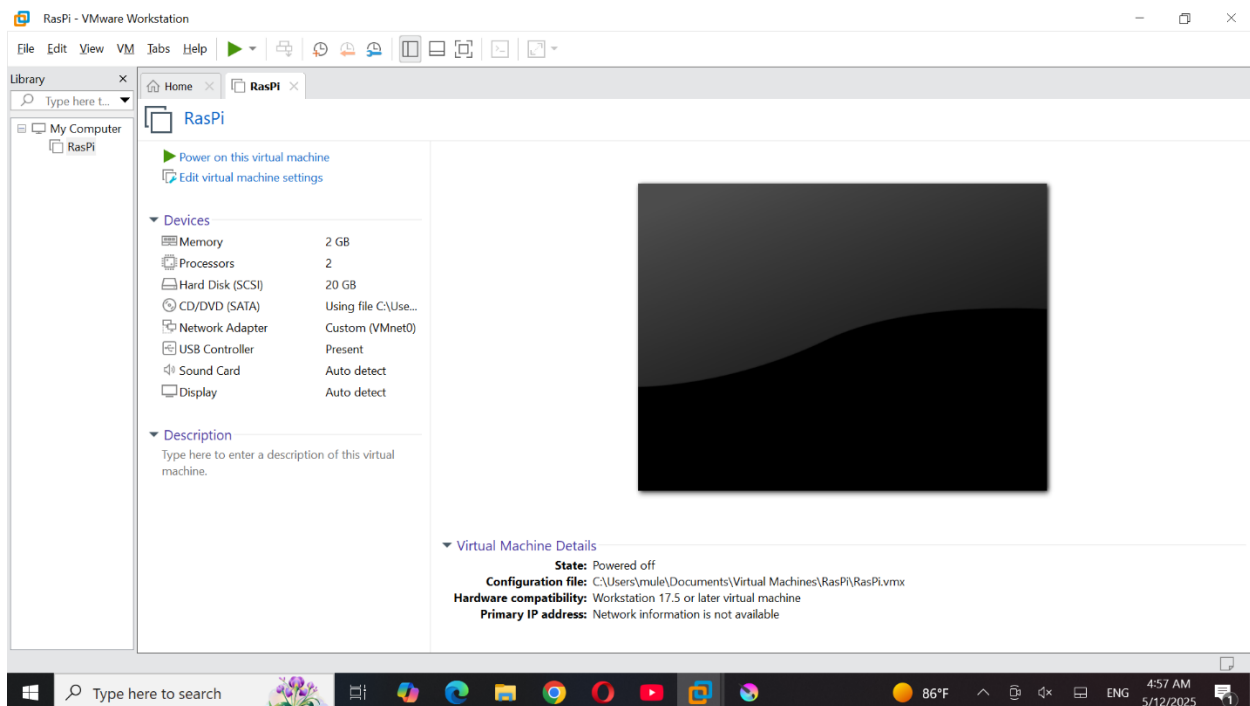
Step 13: select new cd/dvd(sata) and browse the file of raspberry pi



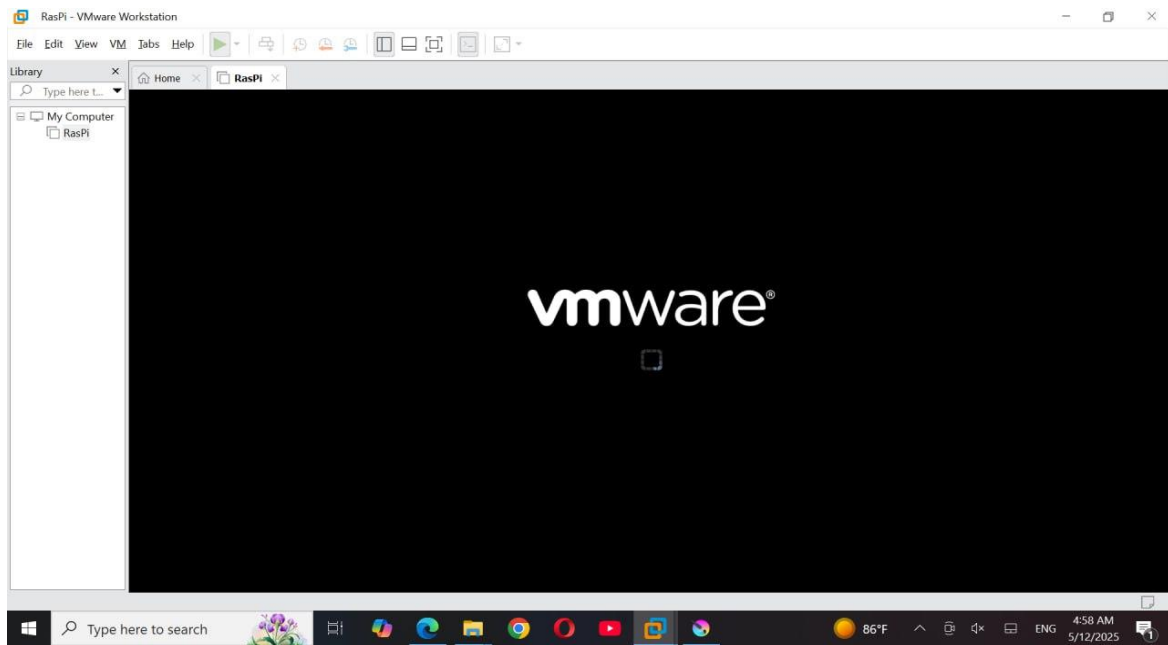
Step 14: click on network adapter and choose custom then close and finish



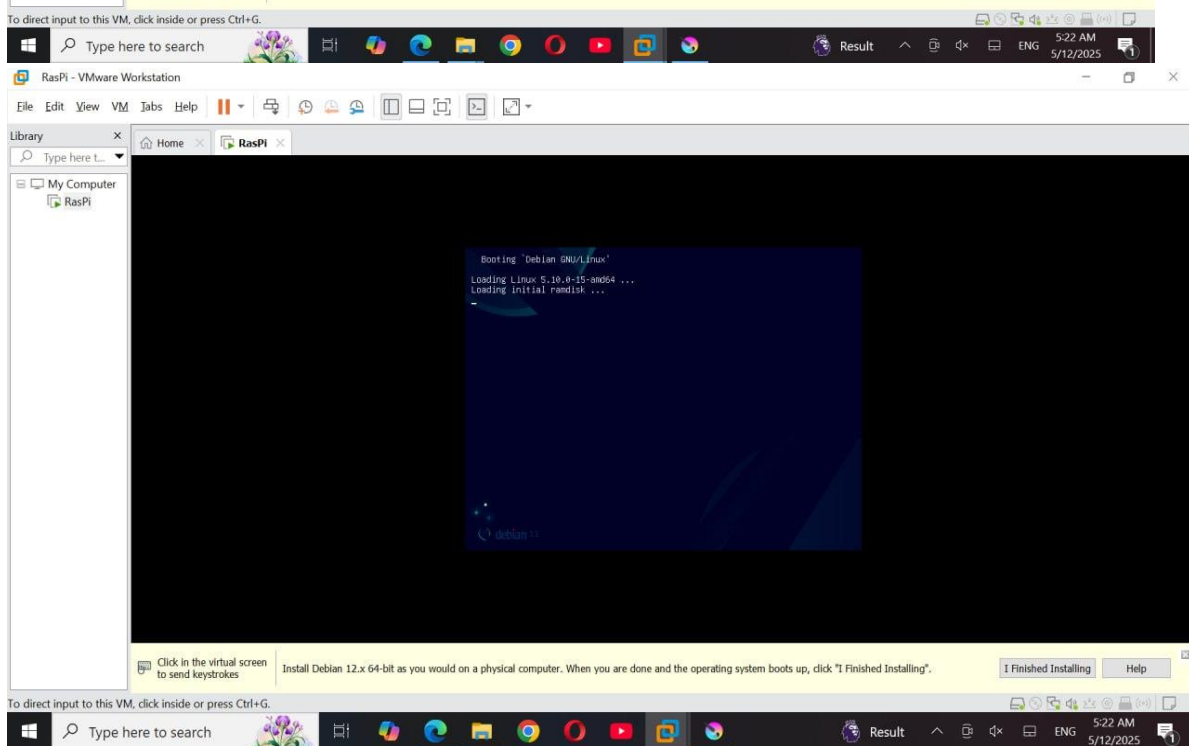
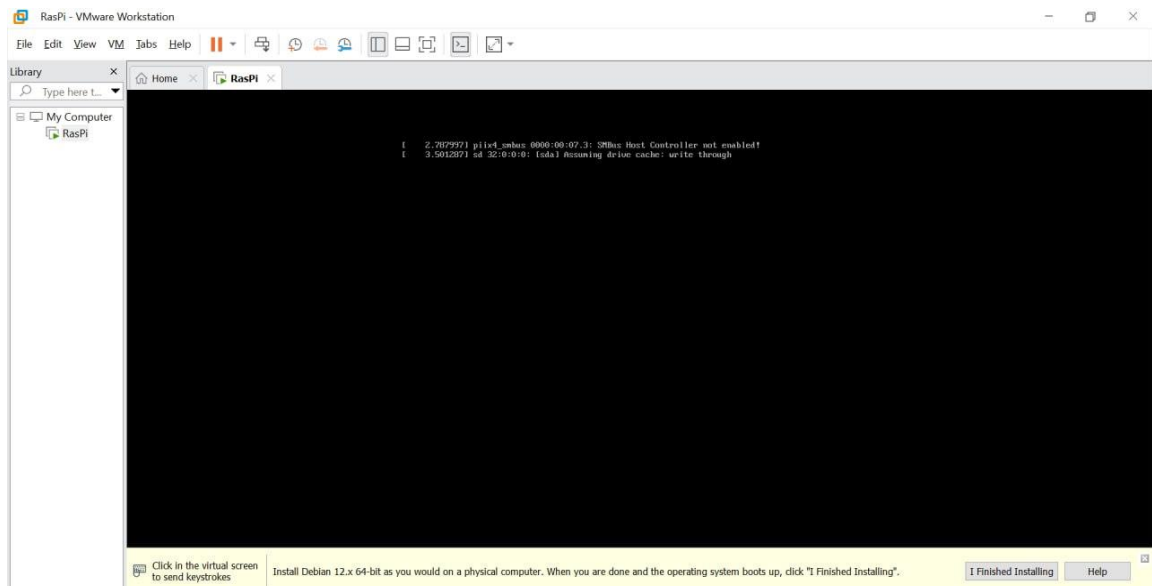
Step 15: then it is successfully created then click on power on this virtual machine

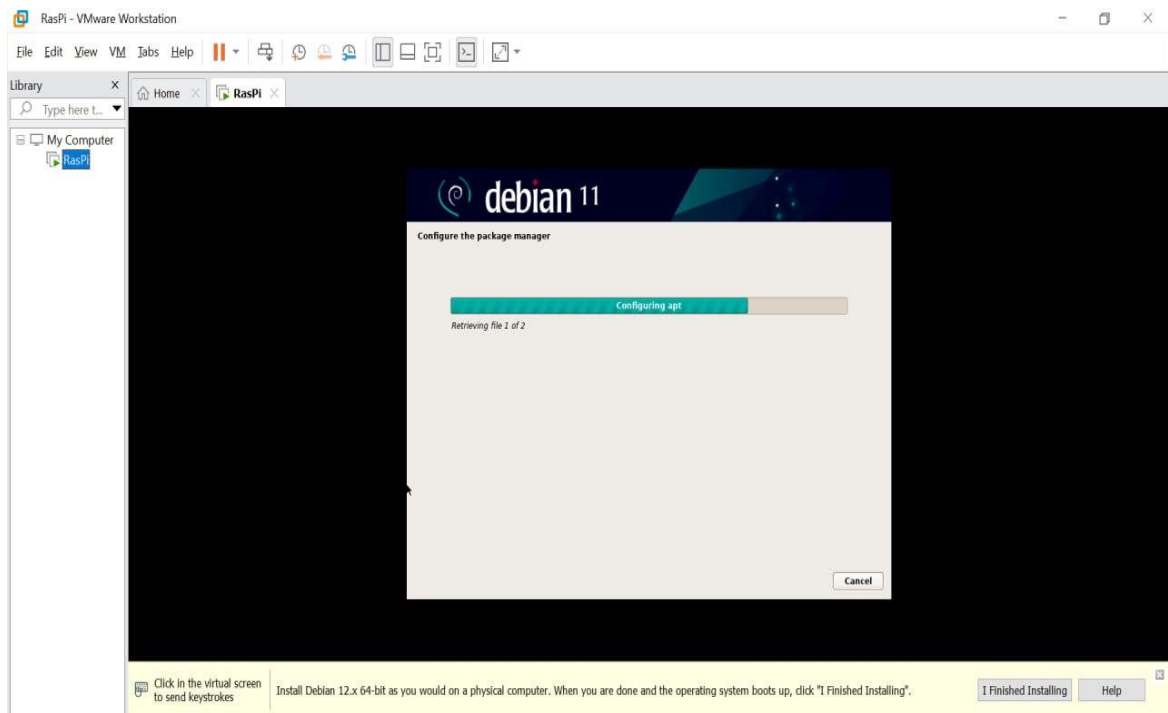


Step 16: you will see this after you power on virtual address

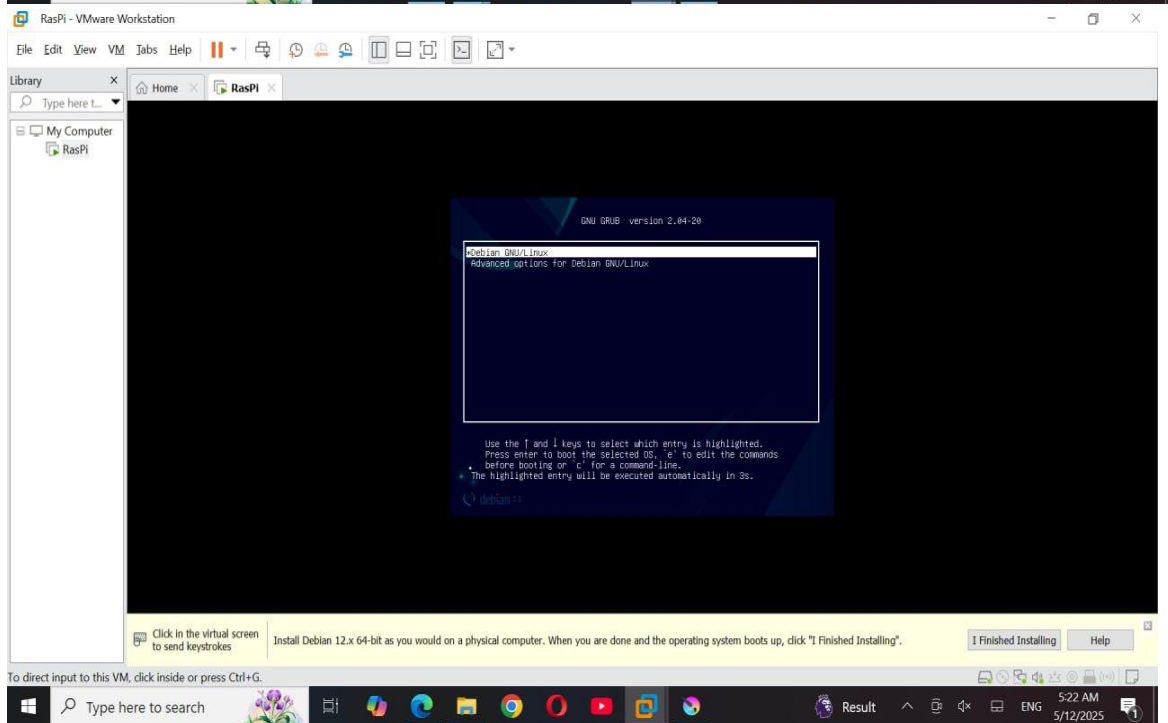


Step 17: follow the steps on the picture



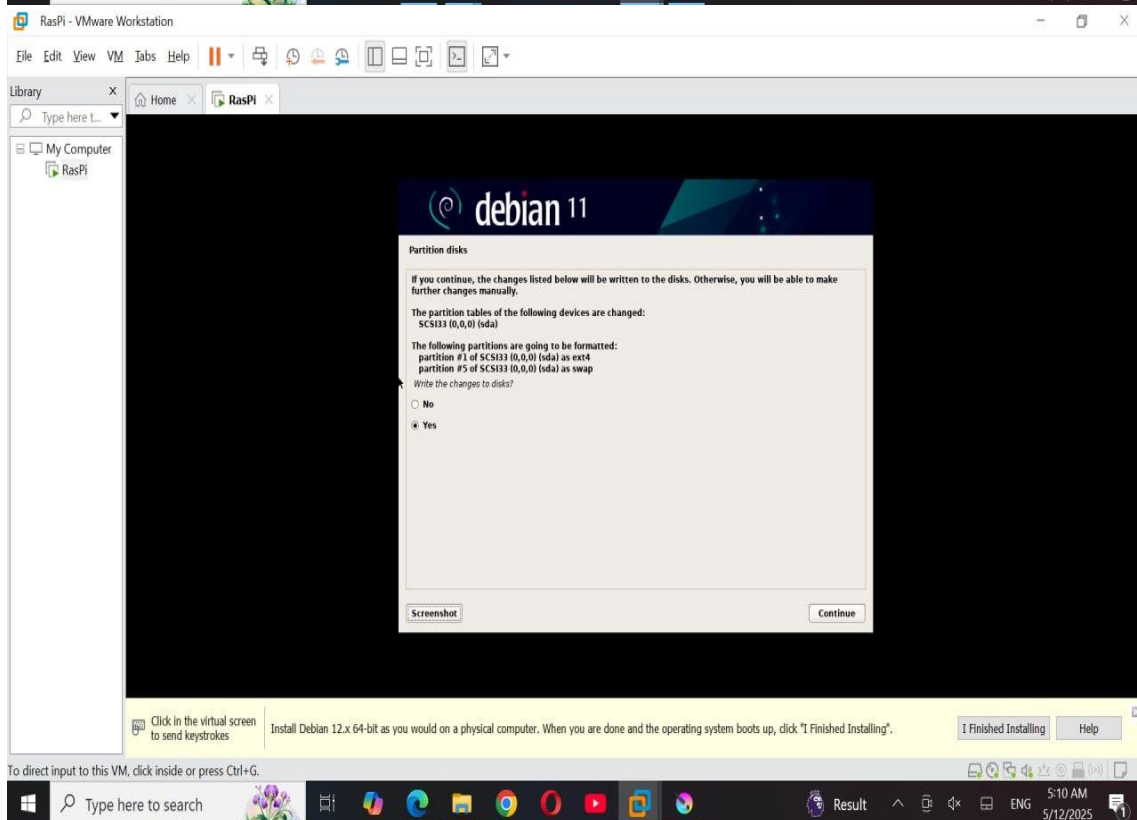
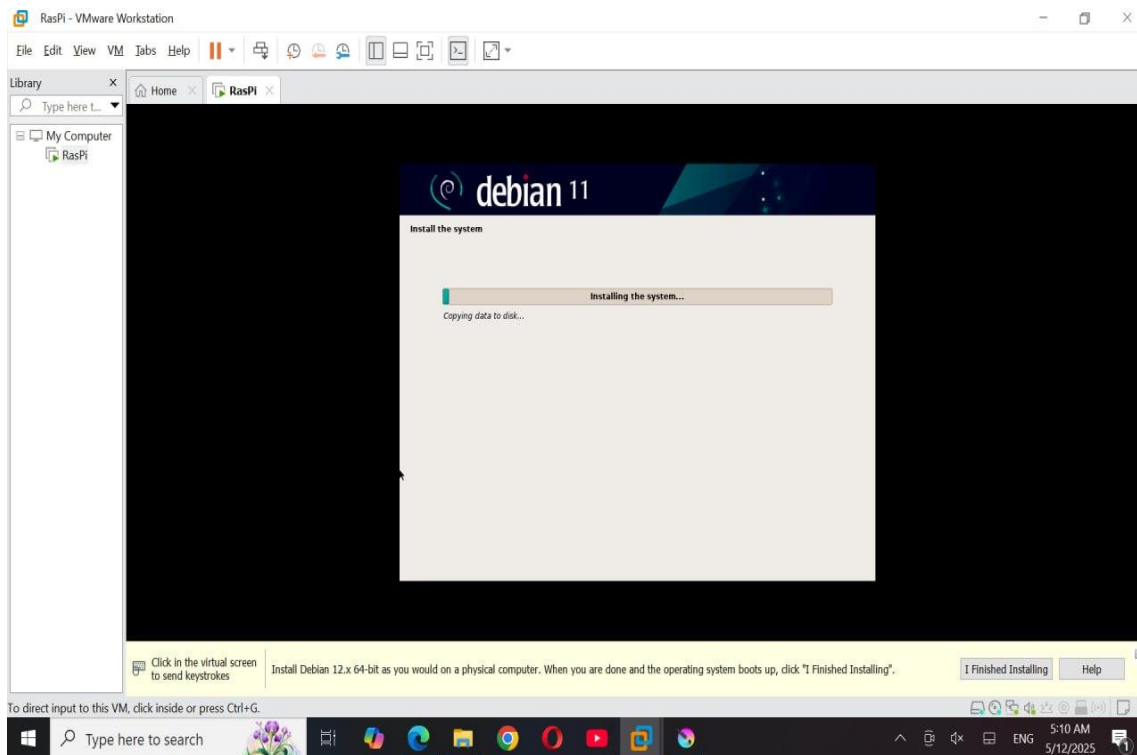


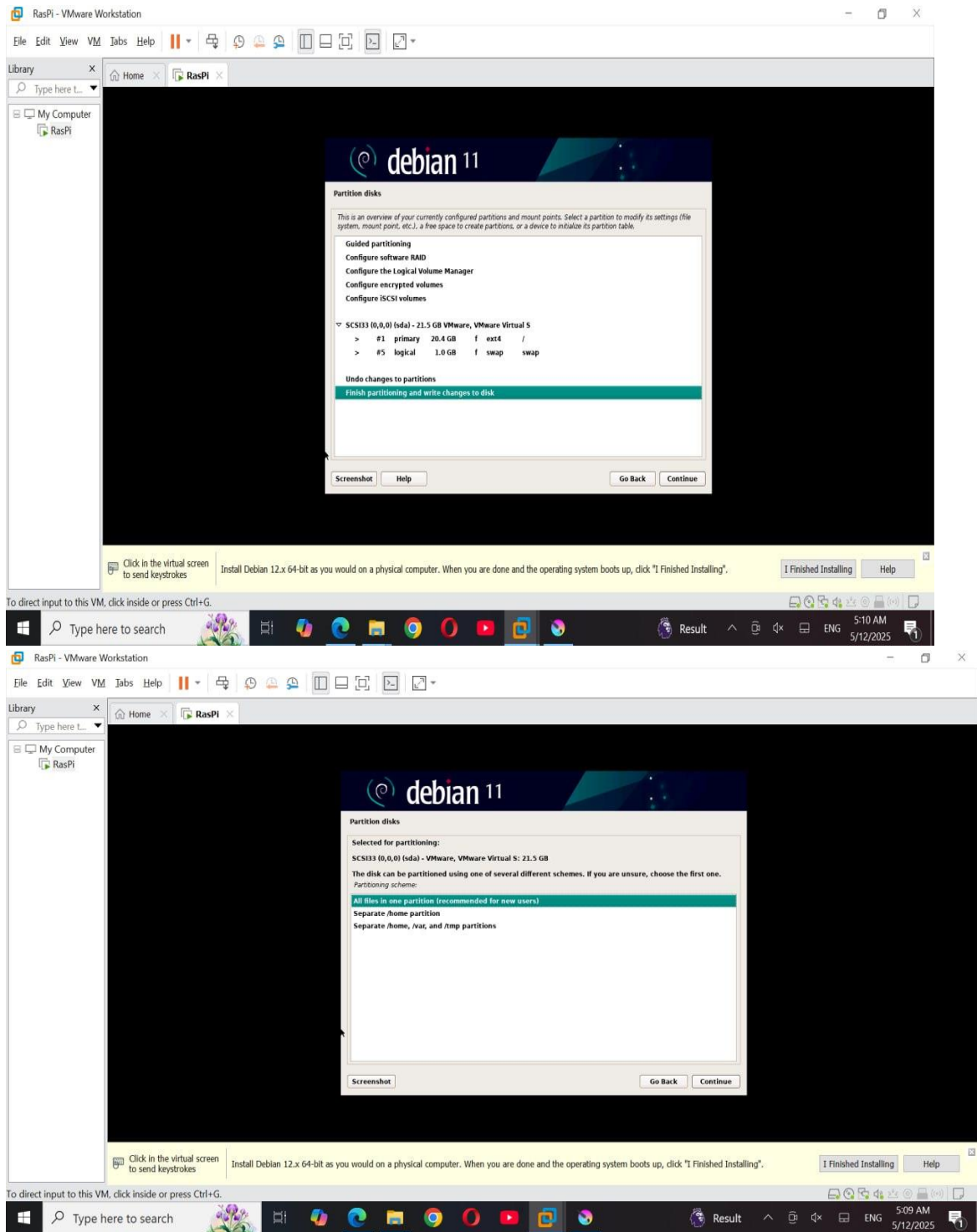
To direct input to this VM, click inside or press Ctrl+G.



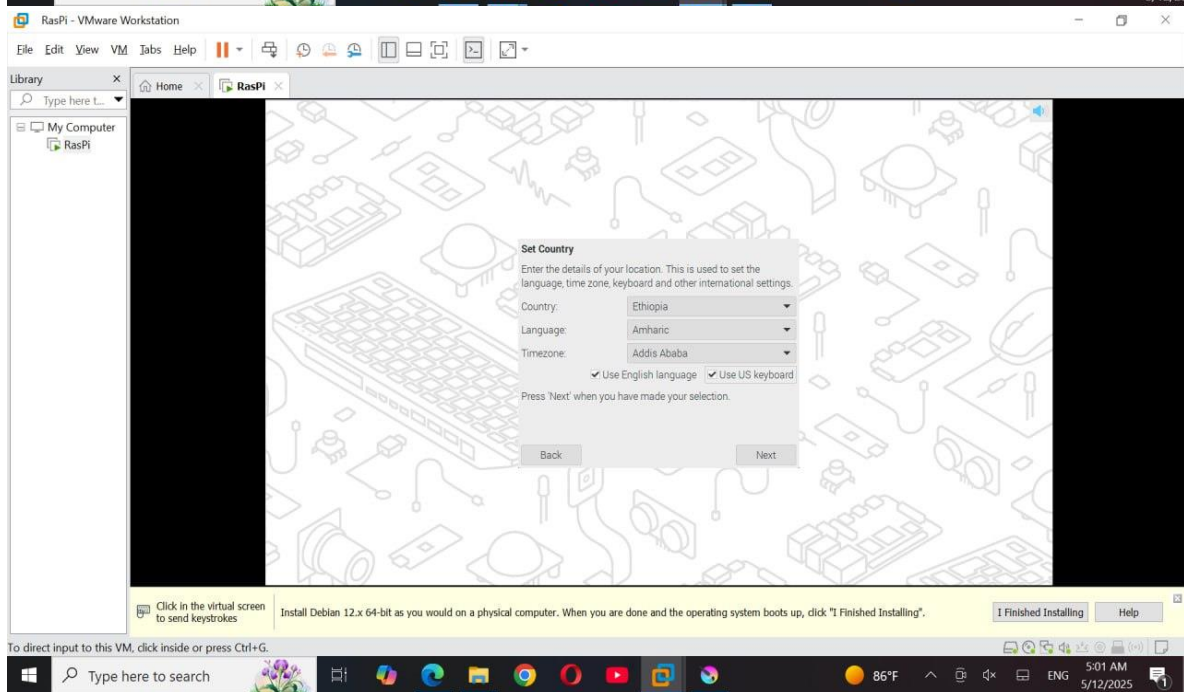
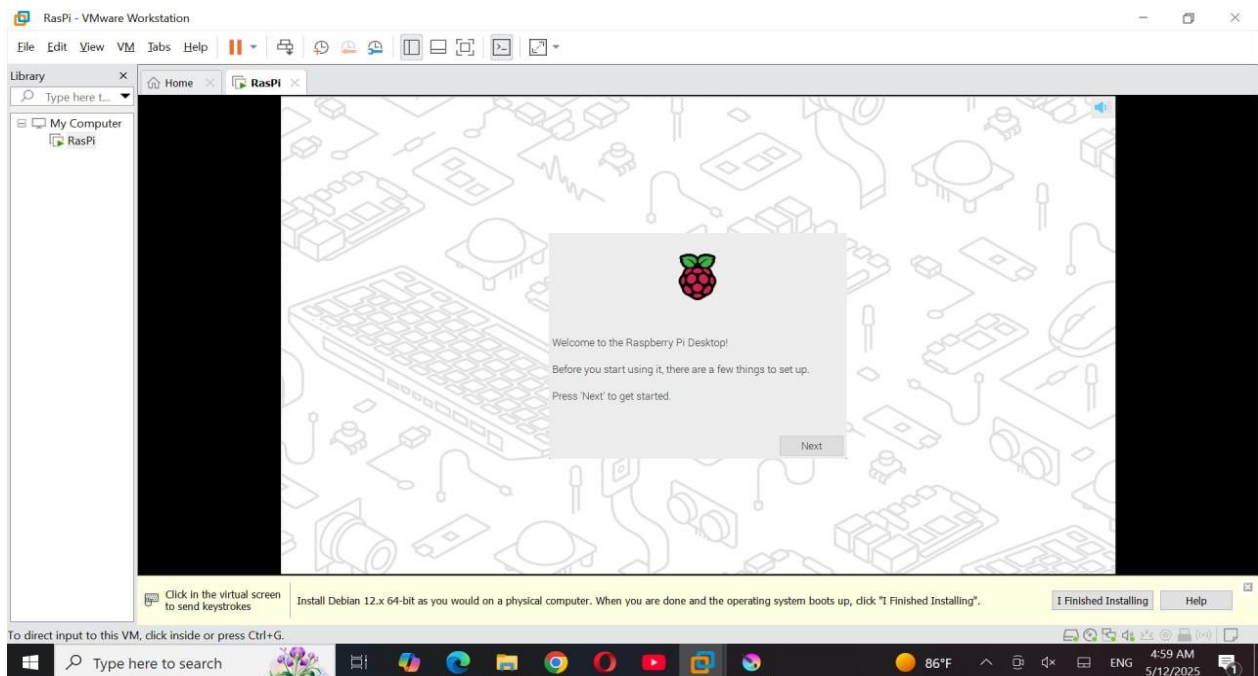
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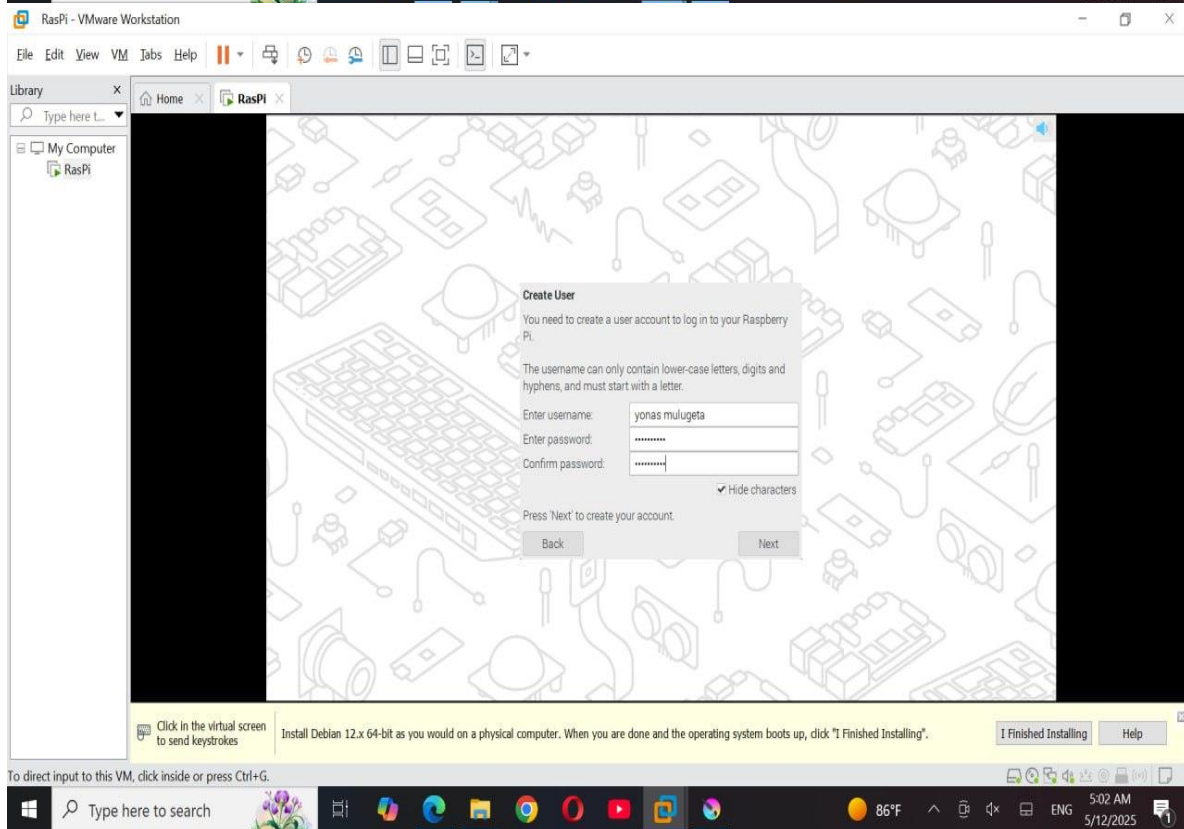
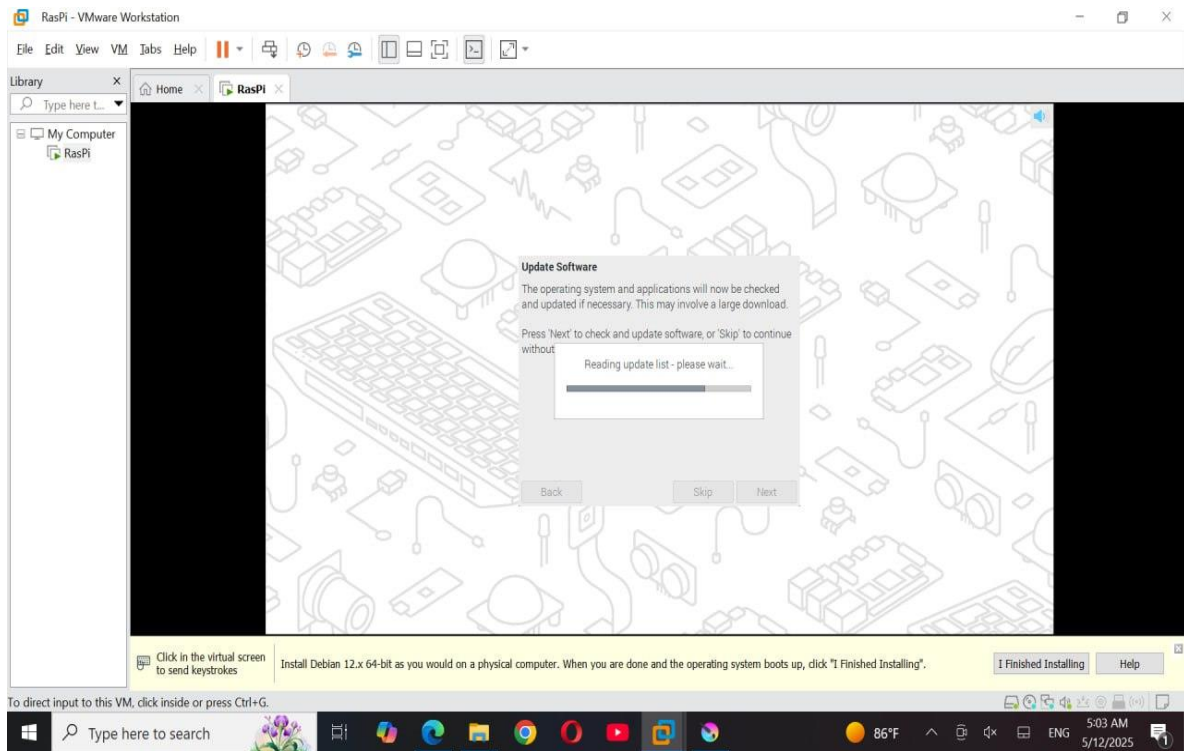


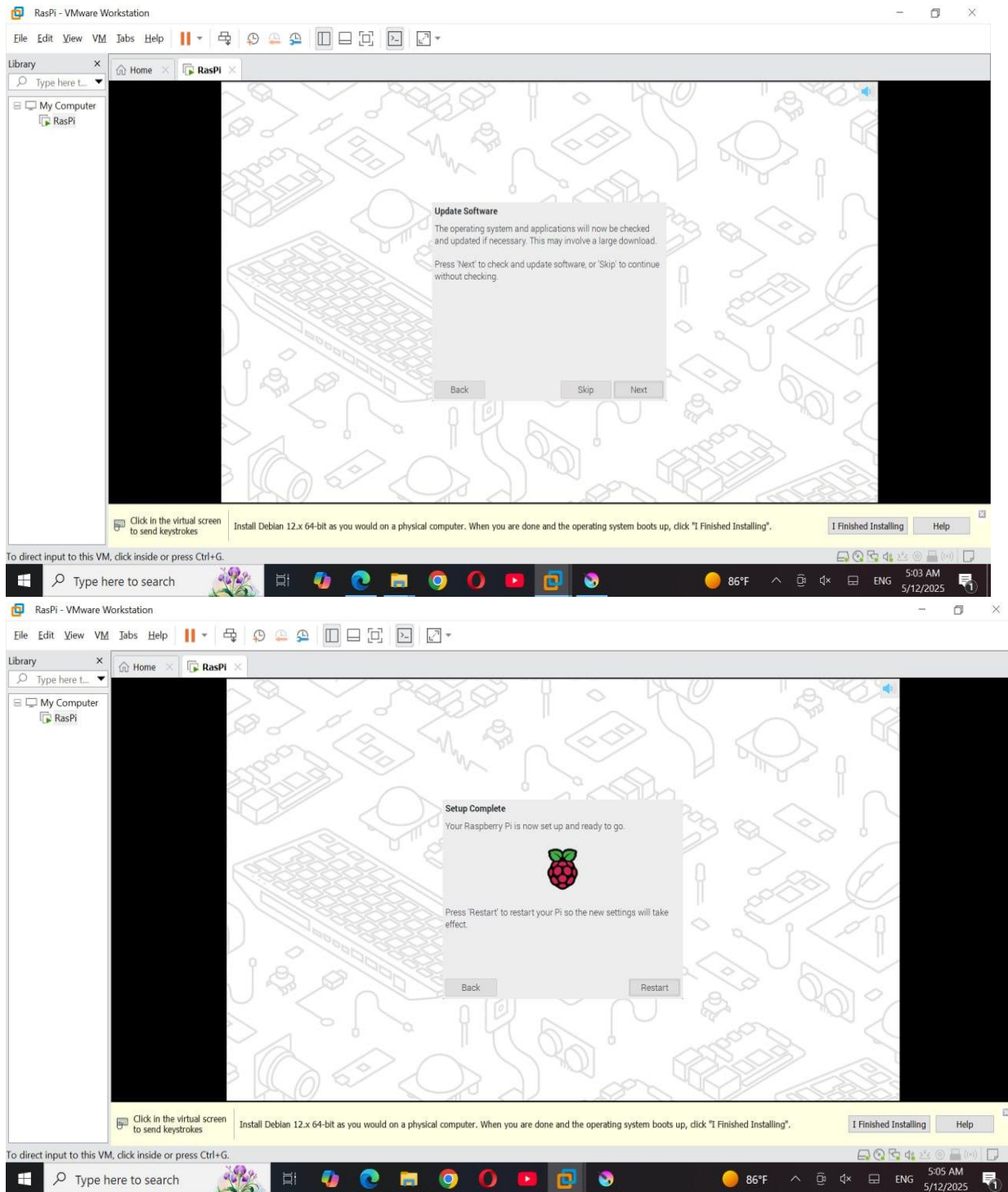




Step 17: create account by using the following picture







Finally you will see the following interface

