EXP NO 6. Demonstrate virtualization by Installing Type-2 Hypervisor in your device, create and configure VM image with a Host Operating system (Either Windows/Linux) using virtual box.

DATE:

AIM:

To demonstrate virtualization by installing a Type-2 Hypervisor (VirtualBox) in the device, and create and configure a Virtual Machine (VM) image with a host operating system (either Windows/Linux).

PROCEDURE:

STEP 1: install Oracle VirtualBox as a Type-2 Hypervisor

STEP 2: Download an ISO image file of the operating system (Ubuntu Linux / Windows).

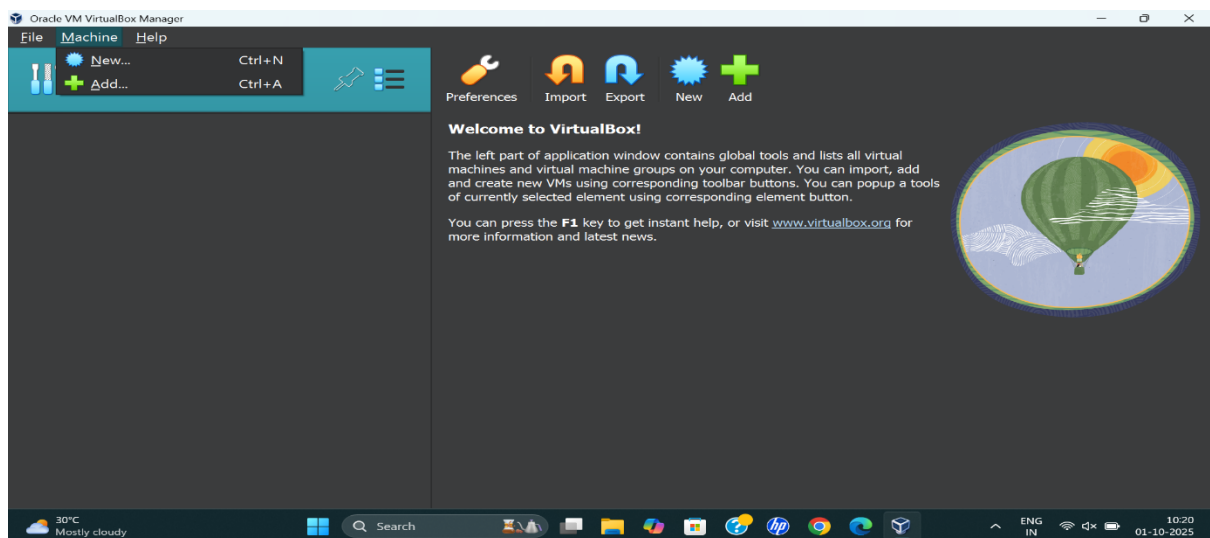STEP 3: Open VirtualBox → Click New → Create a new Virtual Machine.
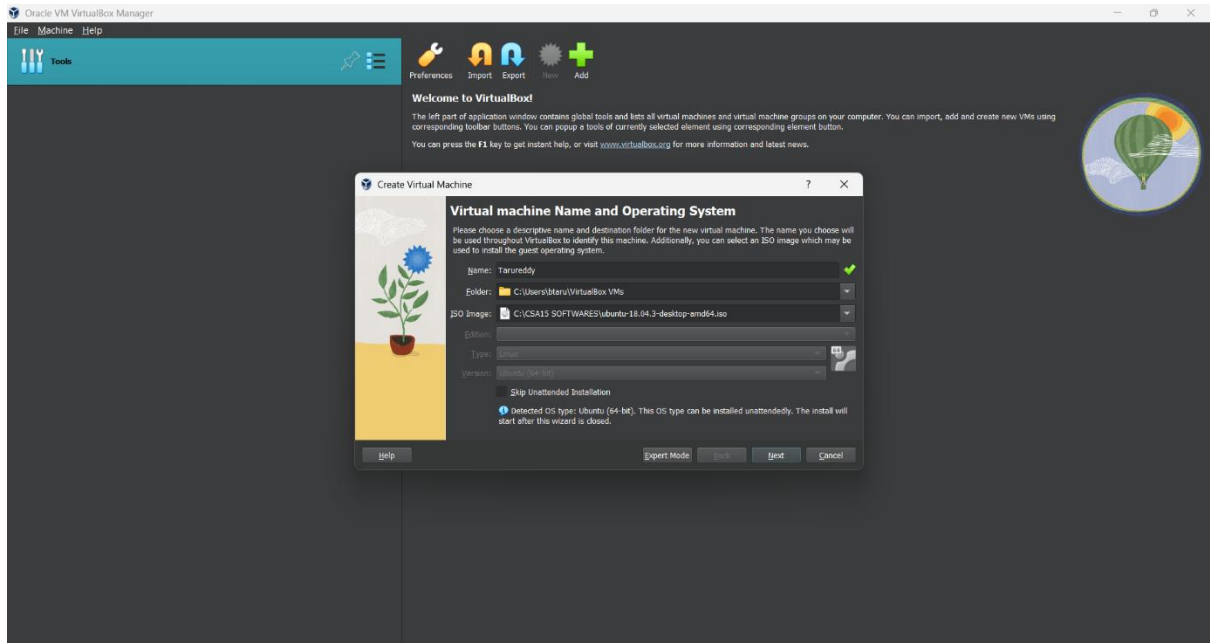
STEP 4: Configure the VM

STEP 5: Start the Virtual Machine → The system will boot from the ISO file.

STEP 6: Install the selected operating system (Linux/Windows) by following the on-screen setup instructions.
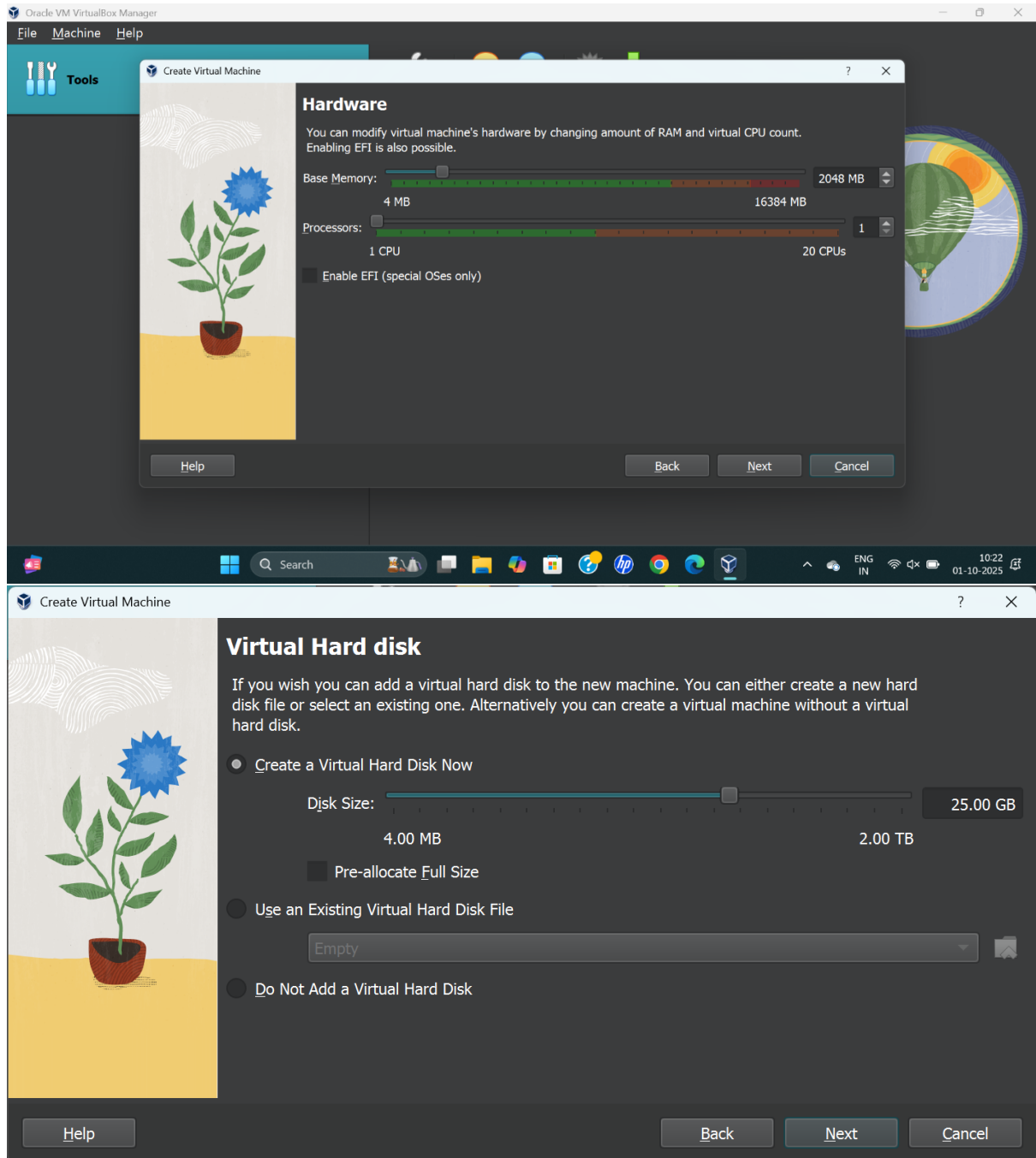
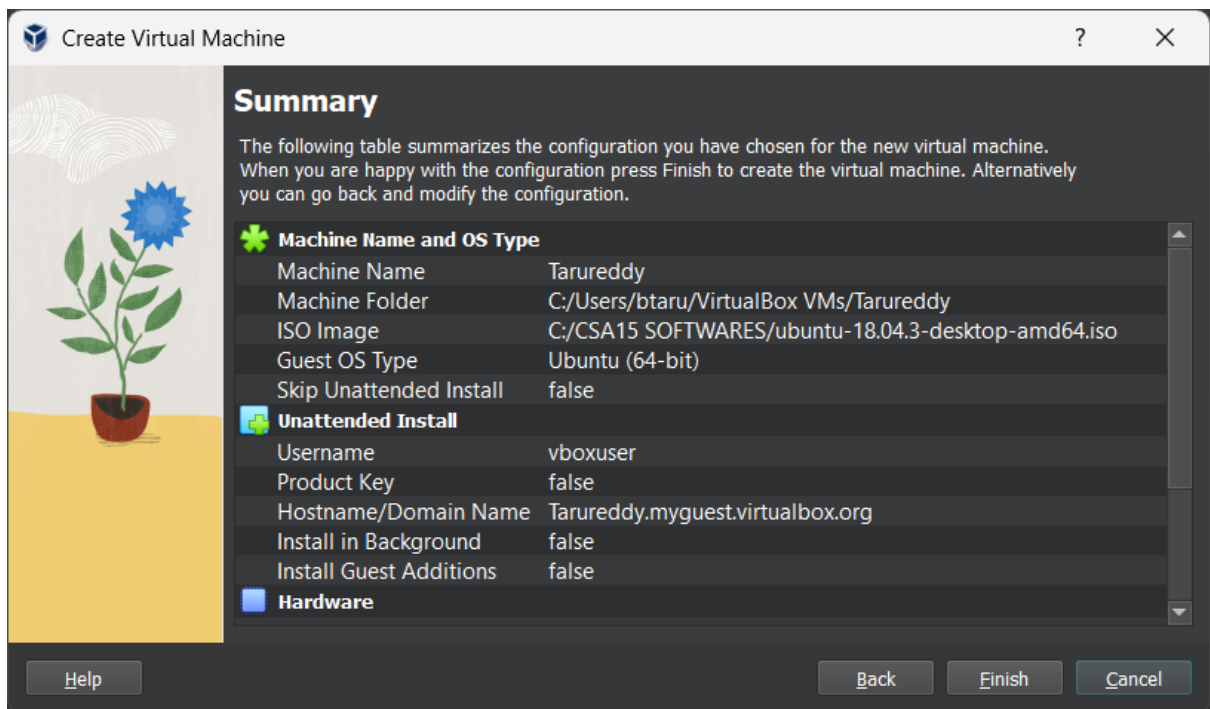STEP 7: After successful installation, launch the VM → The guest operating system runs inside VirtualBox.

Design:

Z

Oracle VM VirtualBox Manager

File   Machine   Help

Tools

Create Virtual Machine   ?   ✕

Hardware

You can modify virtual machine's hardware by changing amount of RAM and virtual CPU count. Enabling EFI is also possible.

Base Memory: 2048 MB

4 MB   16384 MB

Processors: 1

1 CPU   20 CPUs

☐ Enable EFI (special OSes only)

Help   Back   Next   Cancel

Q Search   ENG   10:22
                            IN   01-10-2025

Create Virtual Machine   ?   ✕

Virtual Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select an existing one. Alternatively you can create a virtual machine without a virtual hard disk.

◉ Create a Virtual Hard Disk Now

Disk Size: 25.00 GB

4.00 MB   2.00 TB

☐ Pre-allocate Full Size

◯ Use an Existing Virtual Hard Disk File

Empty

◯ Do Not Add a Virtual Hard Disk

Help   Back   Next   Cancel

Summary

The following table summarizes the configuration you have chosen for the new virtual machine. When you are happy with the configuration press Finish to create the virtual machine. Alternatively you can go back and modify the configuration.

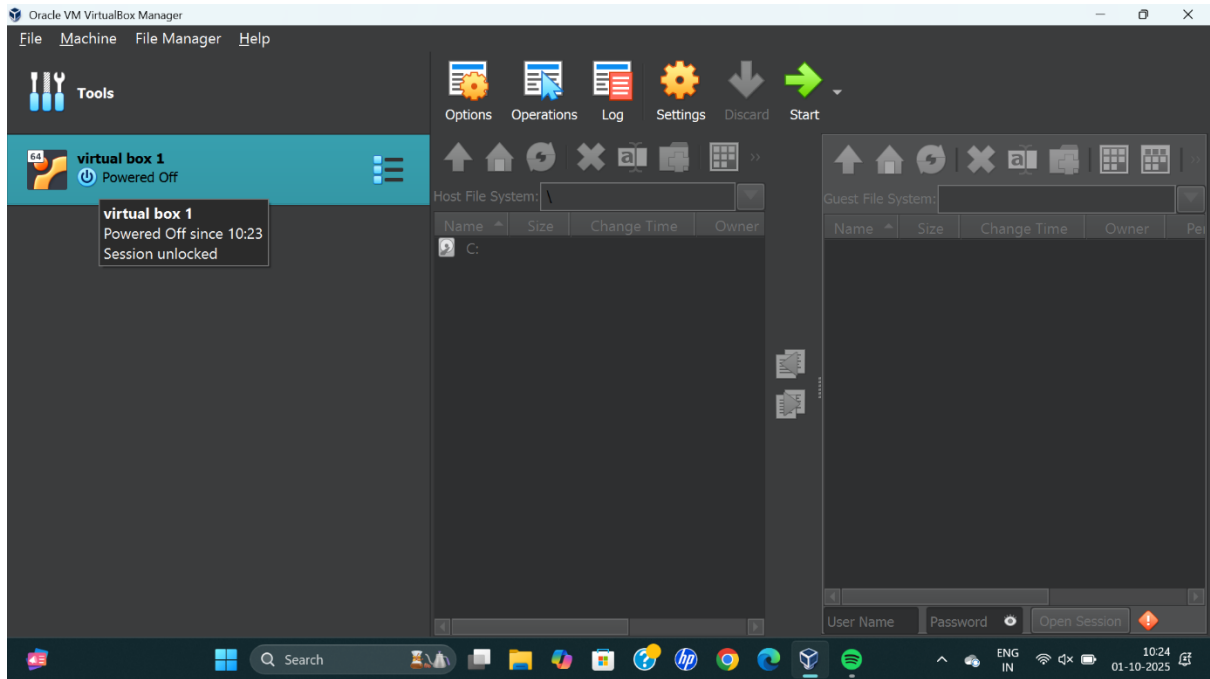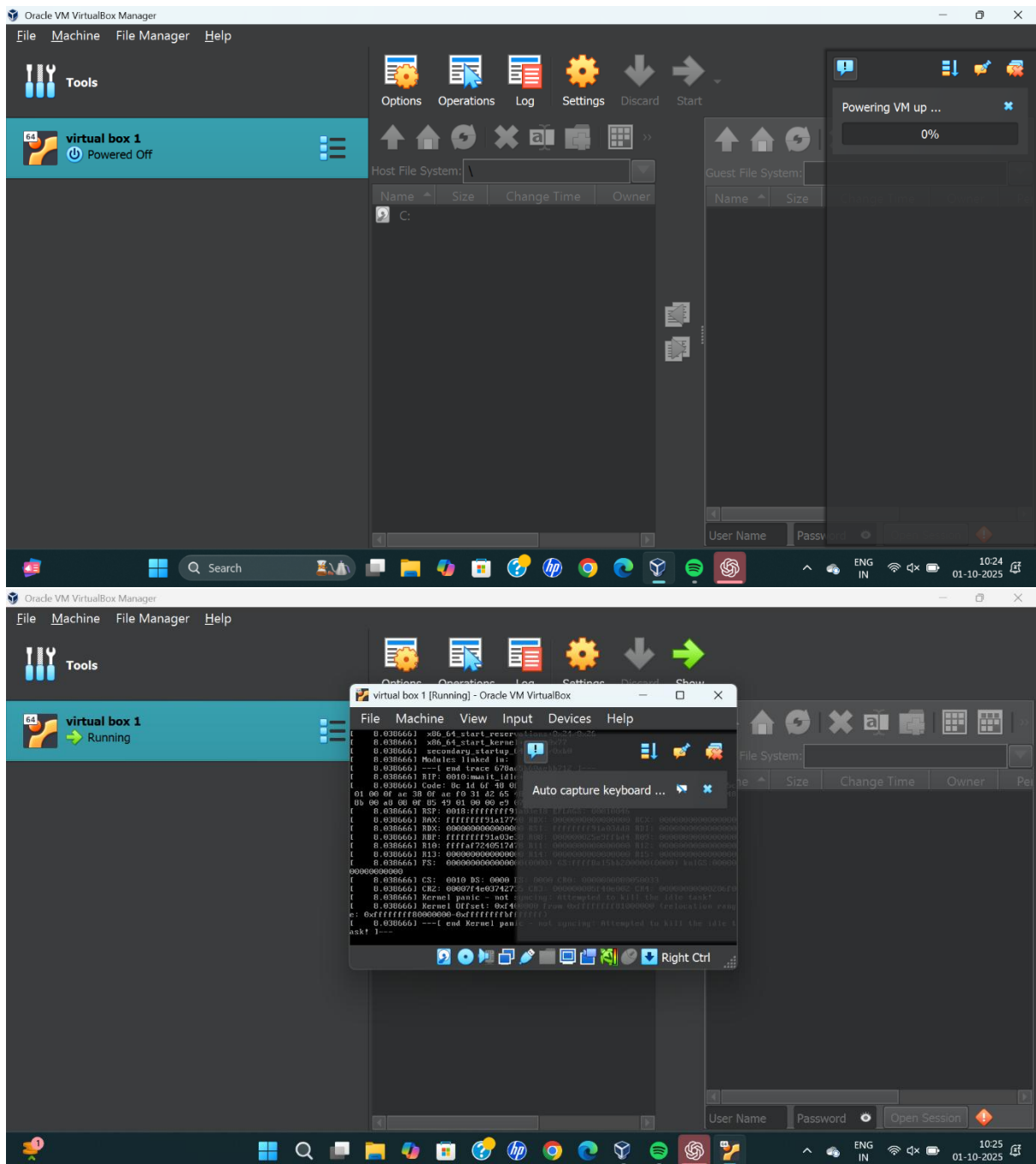| Machine Name and OS Type	
Machine Name	Tarureddy
Machine Folder	C:/Users/btaru/VirtualBox VMs/Tarureddy
ISO Image	C:/CSA15 SOFTWARES/ubuntu-18.04.3-desktop-amd64.iso
Guest OS Type	Ubuntu (64-bit)
Skip Unattended Install	false
Unattended Install	
Username	vboxuser
Product Key	false
Hostname/Domain Name	Tarureddy.myguest.virtualbox.org
Install in Background	false
Install Guest Additions	false
Hardware	

Help   Back   Finish   Cancel

RESULT:

Virtualization was successfully demonstrated using Oracle VirtualBox (Type-2 Hypervisor) by creating and configuring a Virtual Machine with an operating system.