

## DAY 2 EXPERIMENT

### Question 1:

Demonstrate virtualization by Installing Type-2 Hypervisor in your device, create and configure VM image with a Host Operating system (Either Windows/Linux)

The image shows two screenshots of the 'Create Virtual Machine' wizard in Oracle VM VirtualBox.

**Top Screenshot: Virtual machine Name and Operating System**

Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.

Name:  ✓

Folder:  ▾

ISO Image:  ▾

Edition:  ▾

Type:  ▾ 64

Version:  ▾

☐ Skip Unattended Installation

ⓘ Detected OS type: Ubuntu (64-bit). This OS type can be installed unattended. The install will start after this wizard is closed.

Buttons: Help, Expert Mode, Back, Next, Cancel

**Bottom Screenshot: Hardware**


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

Base Memory:  ▴ ▾

Processors:  ▴ ▾

☐ Enable EFI (special OSes only)

Buttons: Help, Back, Next, Cancel



## 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:  20 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.

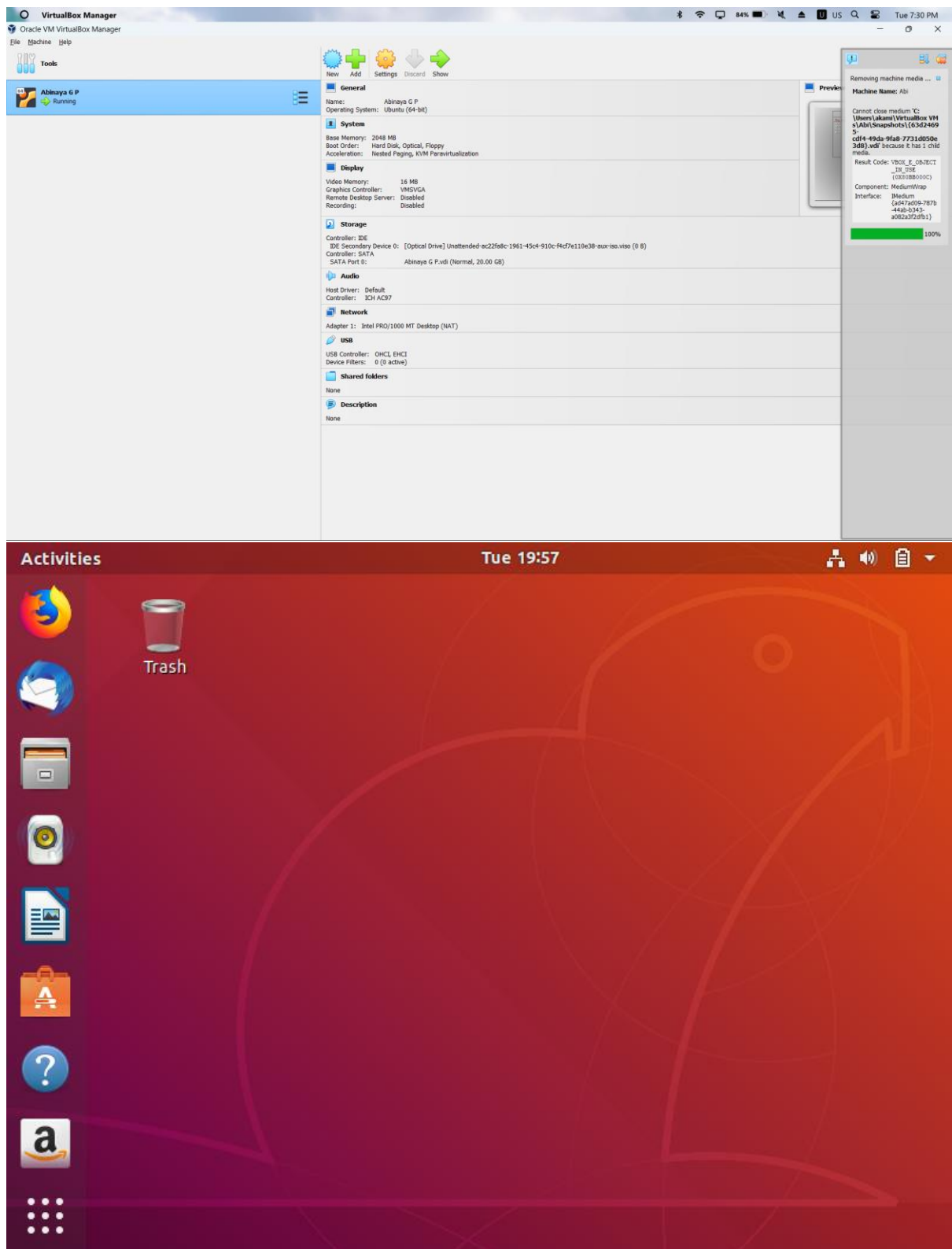
 <b>Machine Name and OS Type</b>	
Machine Name	Abinaya G P
Machine Folder	C:/Users/akami/VirtualBox VMs/Abinaya G P
ISO Image	C:/Users/akami/OneDrive/Desktop/ubuntu-18.04.3-desktop-amd64.iso
Guest OS Type	Ubuntu (64-bit)
Skip Unattended Install	false
 <b>Unattended Install</b>	
Username	abinaya
Product Key	false
Hostname/Domain Name	AbinayaGP.myguest.virtualbox.org
Install in Background	false
Install Guest Additions	false
 <b>Hardware</b>	

Help

Back

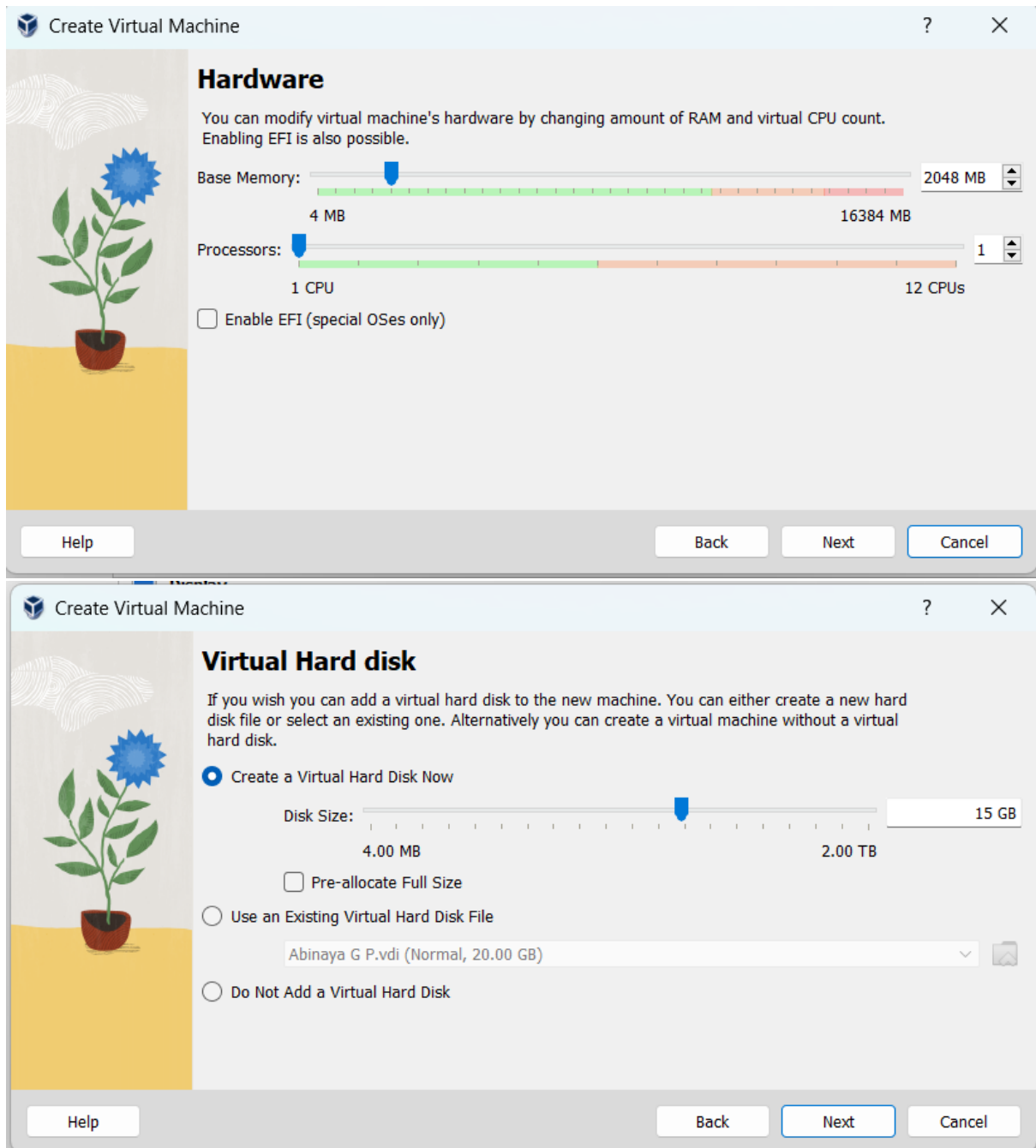
Finish

Cancel



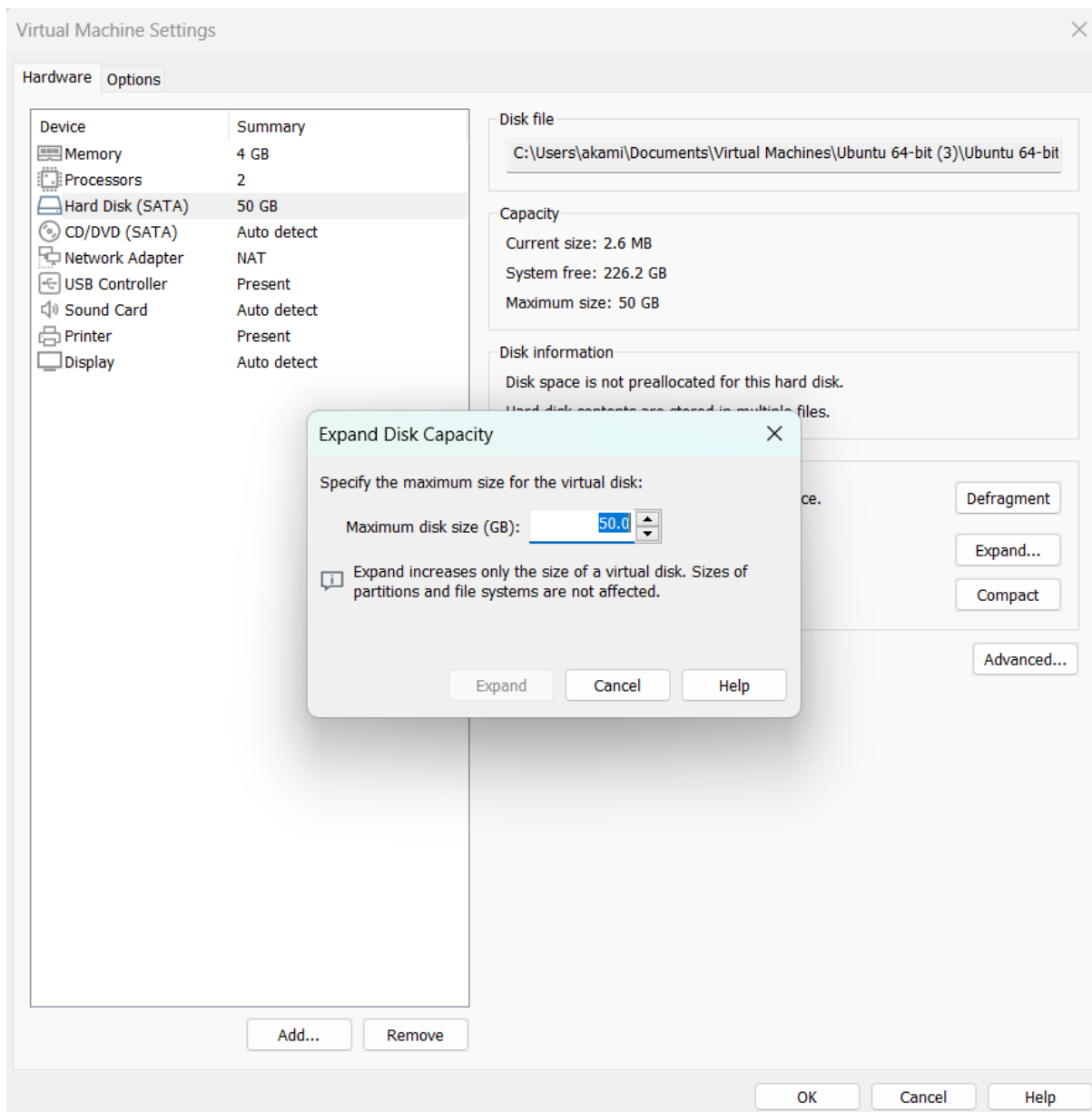
## Question 2:

Create a Virtual Machine with 1 CPU, 2GB RAM and 15GB storage disk using a Type 2 Virtualization Software.



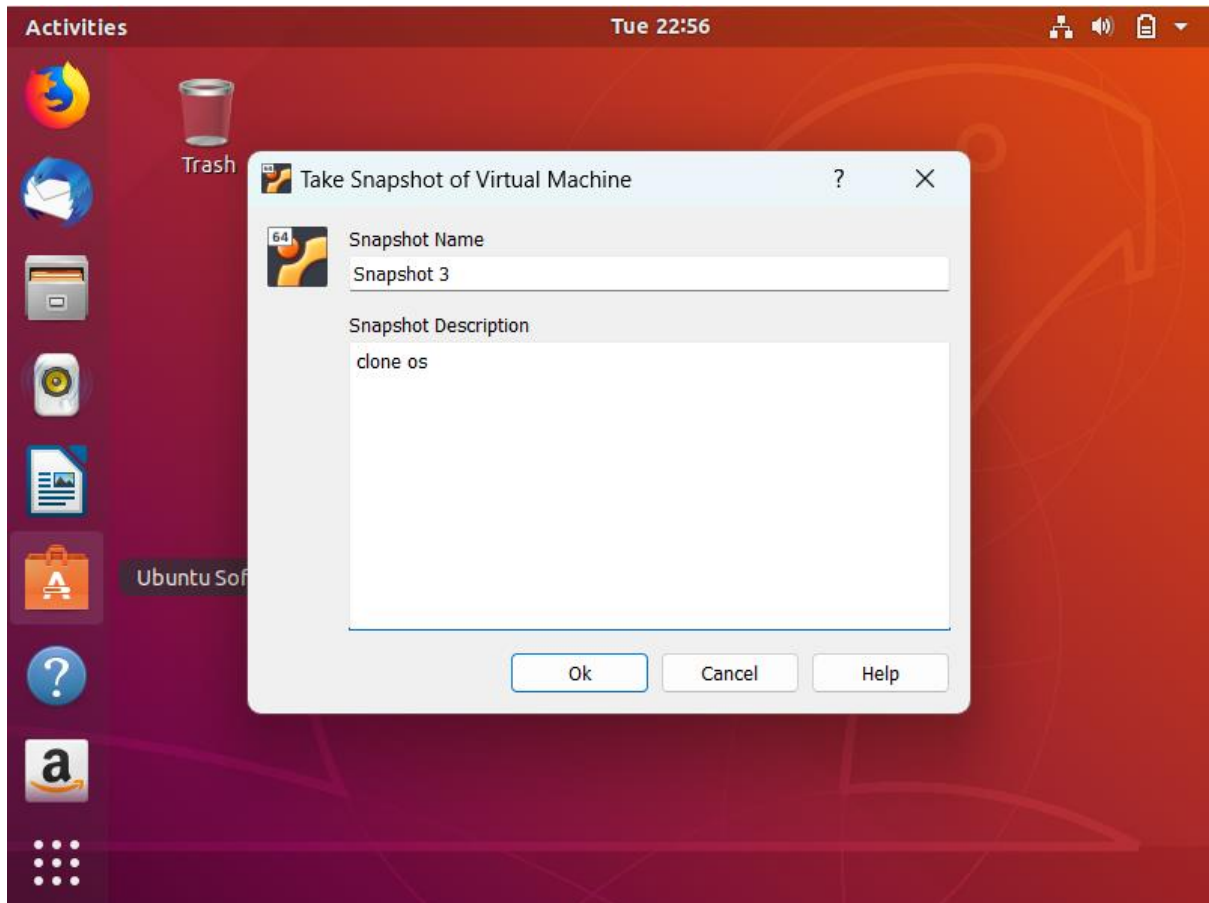
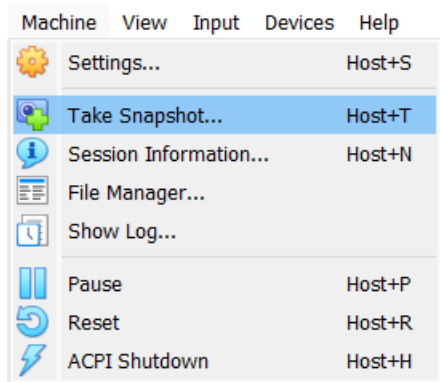
### Question 3:

Create a Virtual Hard Disk and allocate the storage using VM ware Workstation



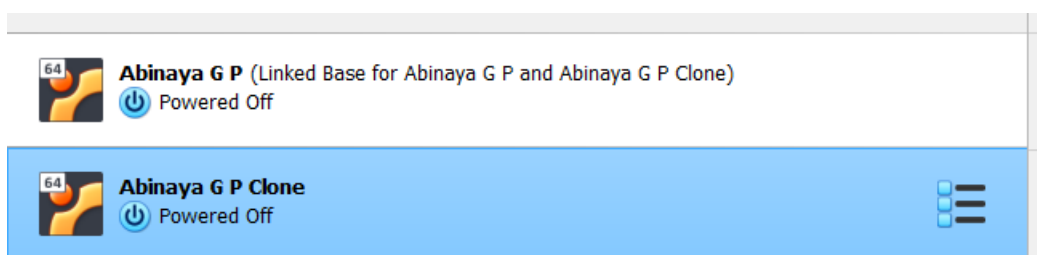
#### Question 4:

Create a Snapshot of a VM and Test it by loading the Previous Version/Cloned VM



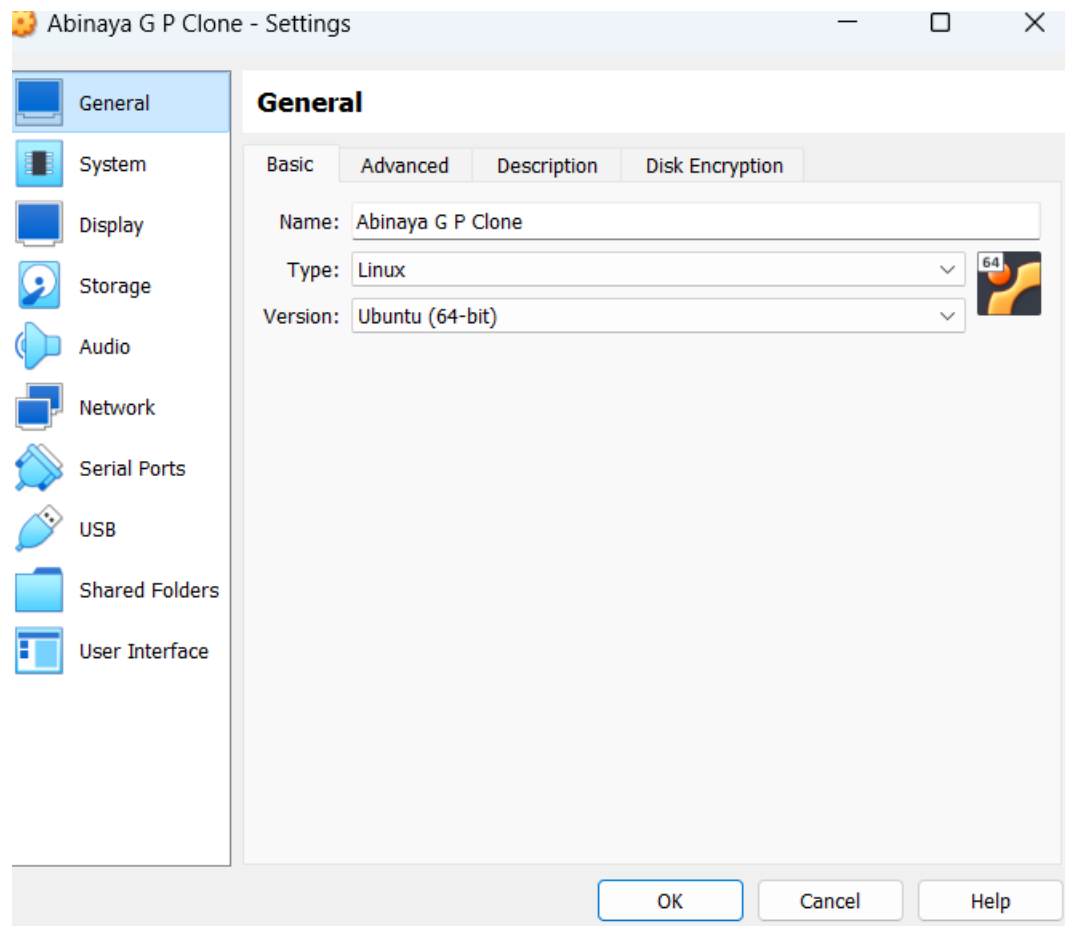
### Question 5:

Create a Cloning of a VM and Test it by loading the Previous Version/Cloned VM

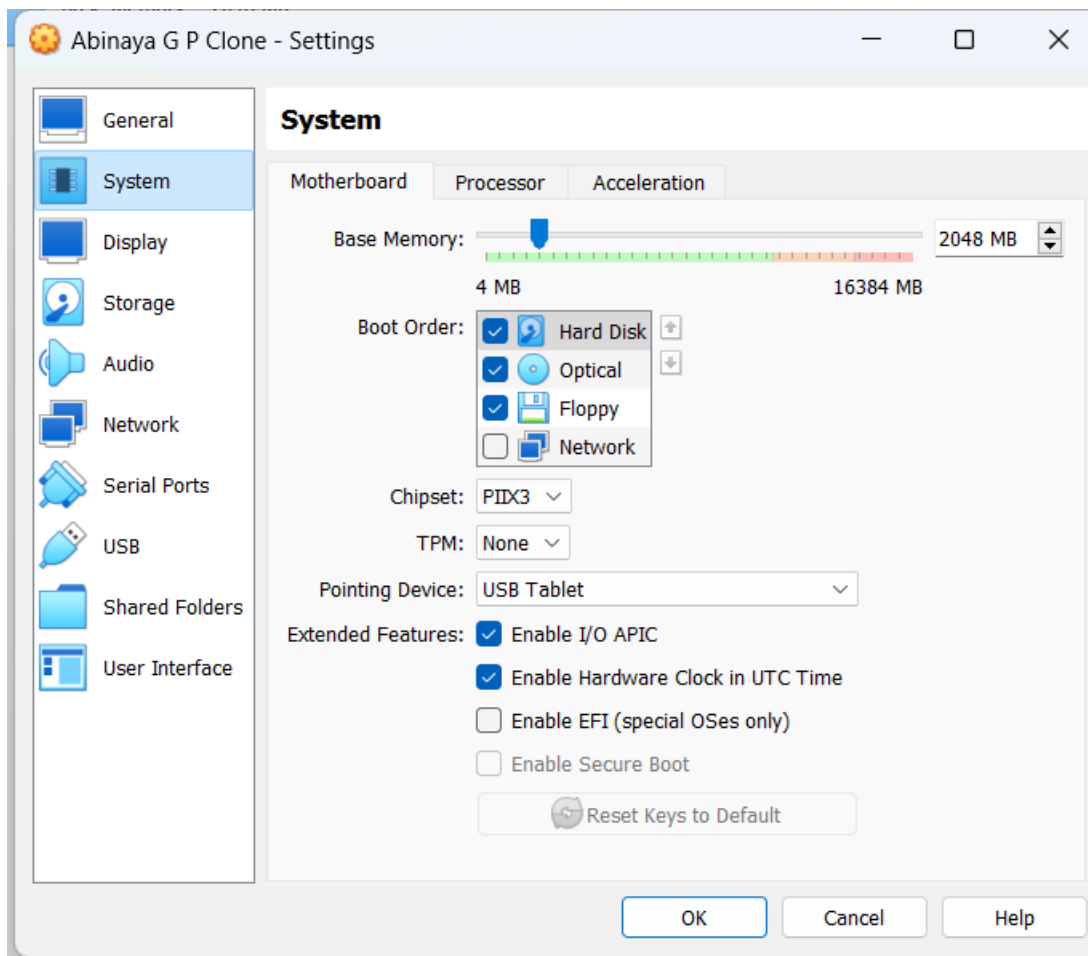


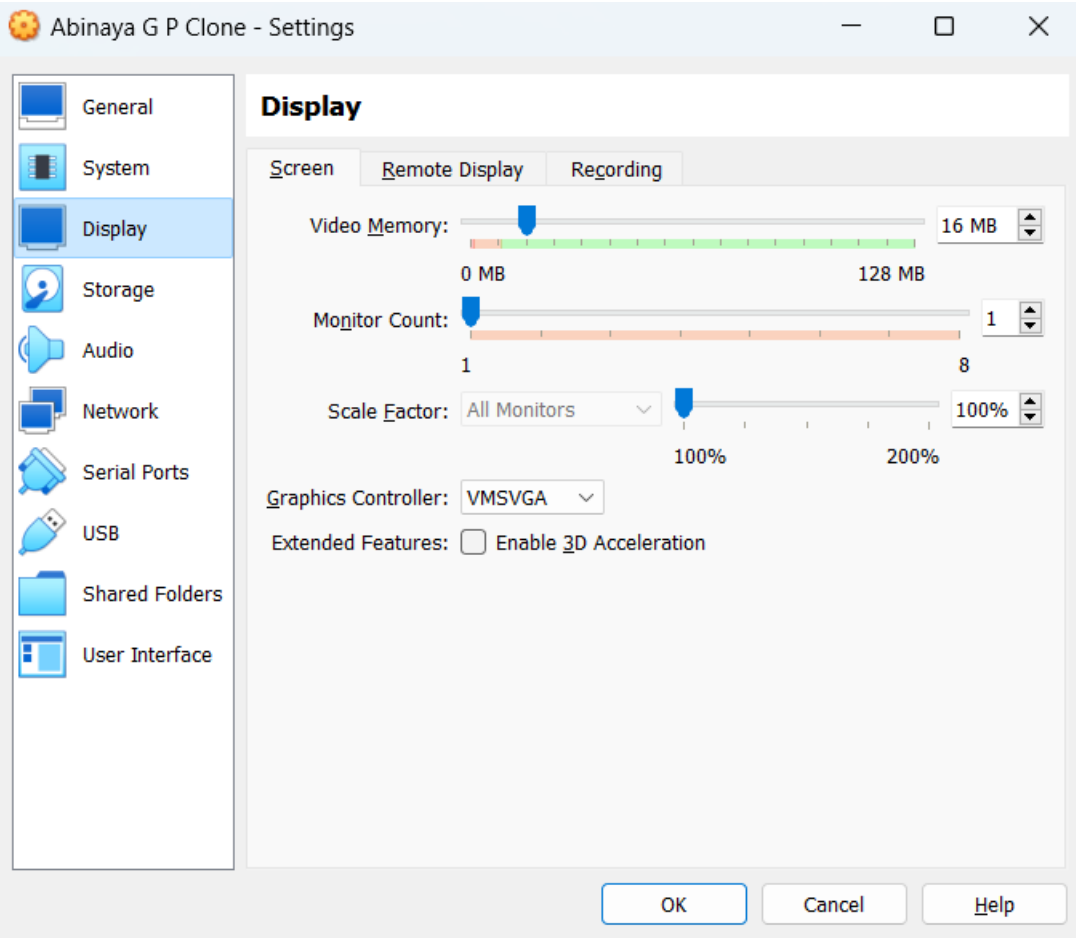
**Question 6:**

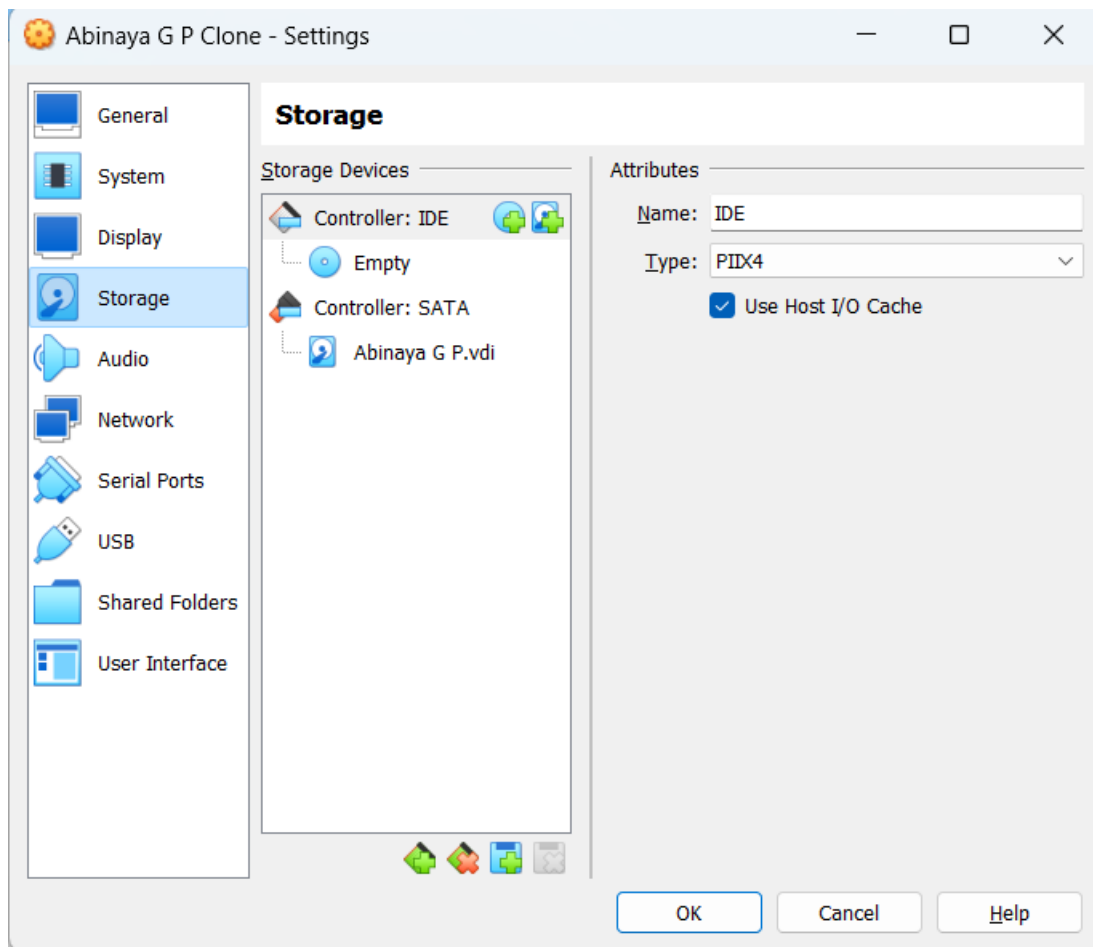
Change Hardware compatibility of a VM (Either by clone/create new one) which is already created and configured.

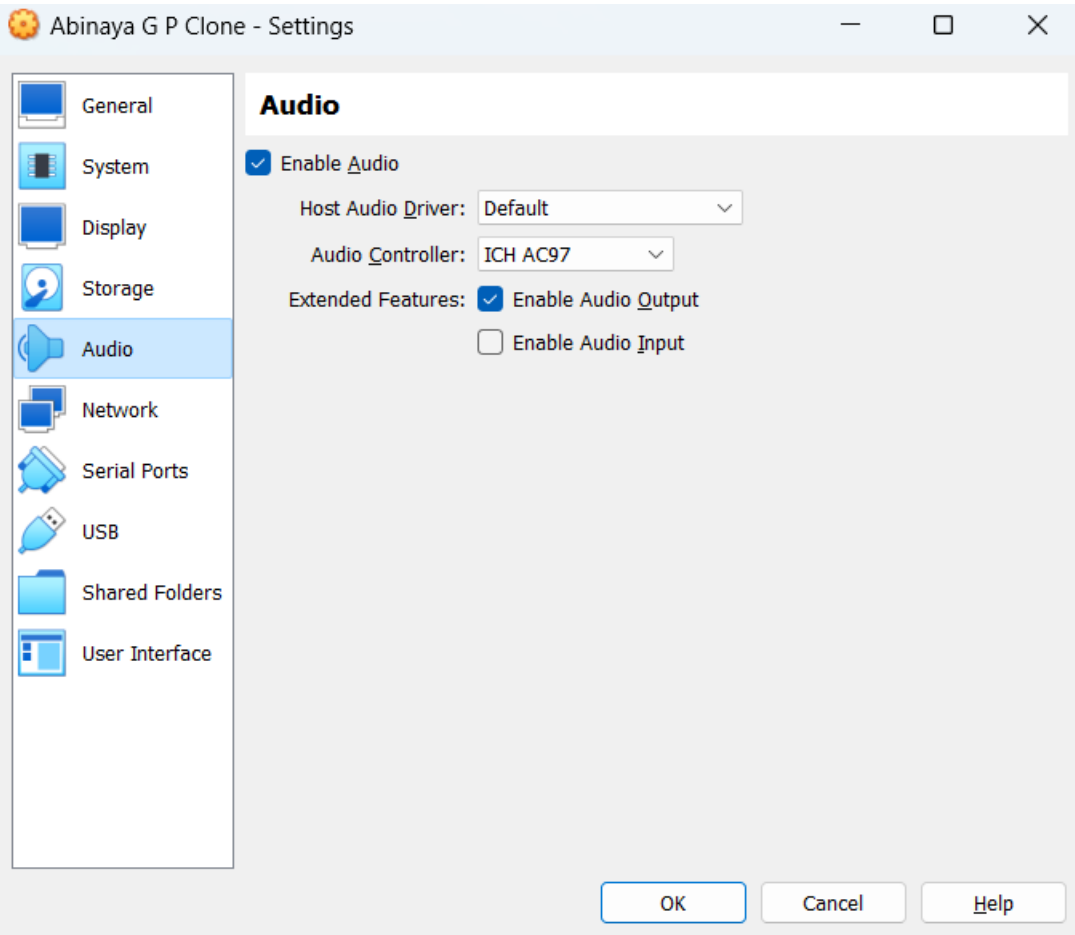


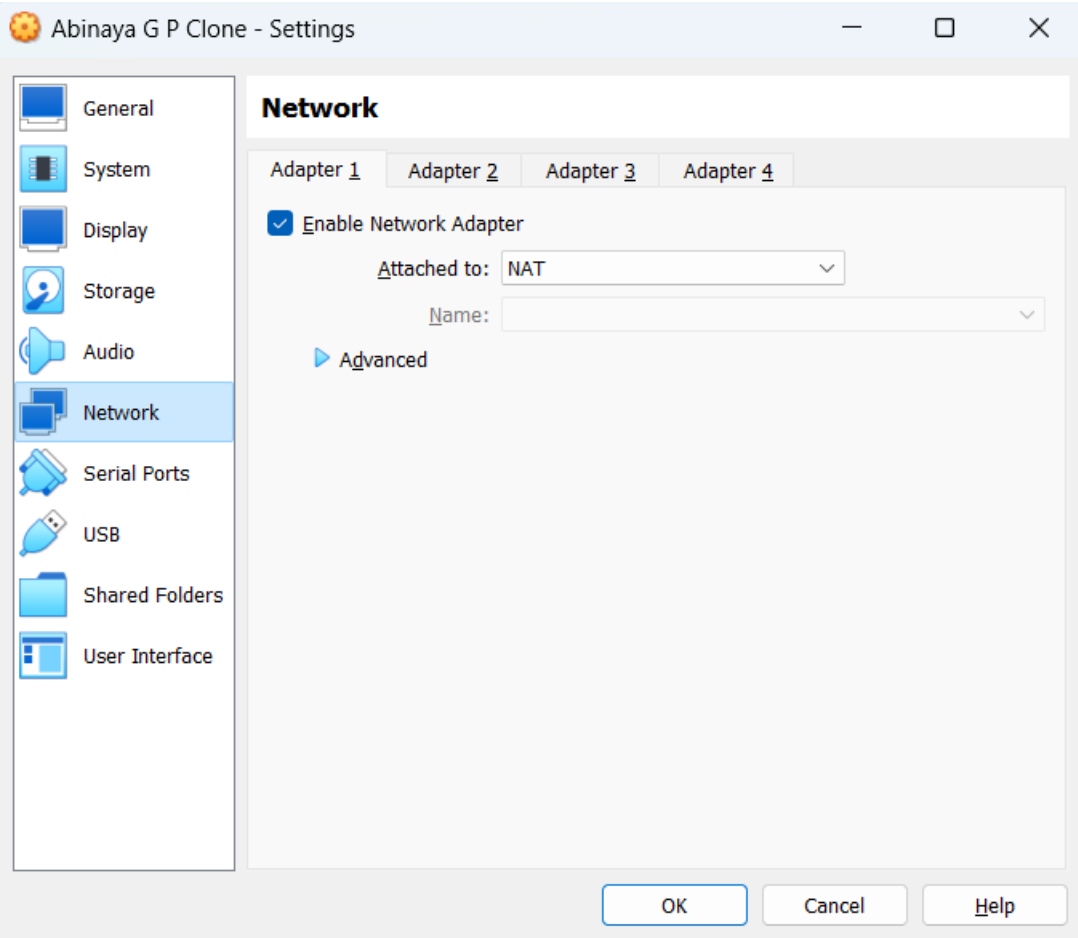


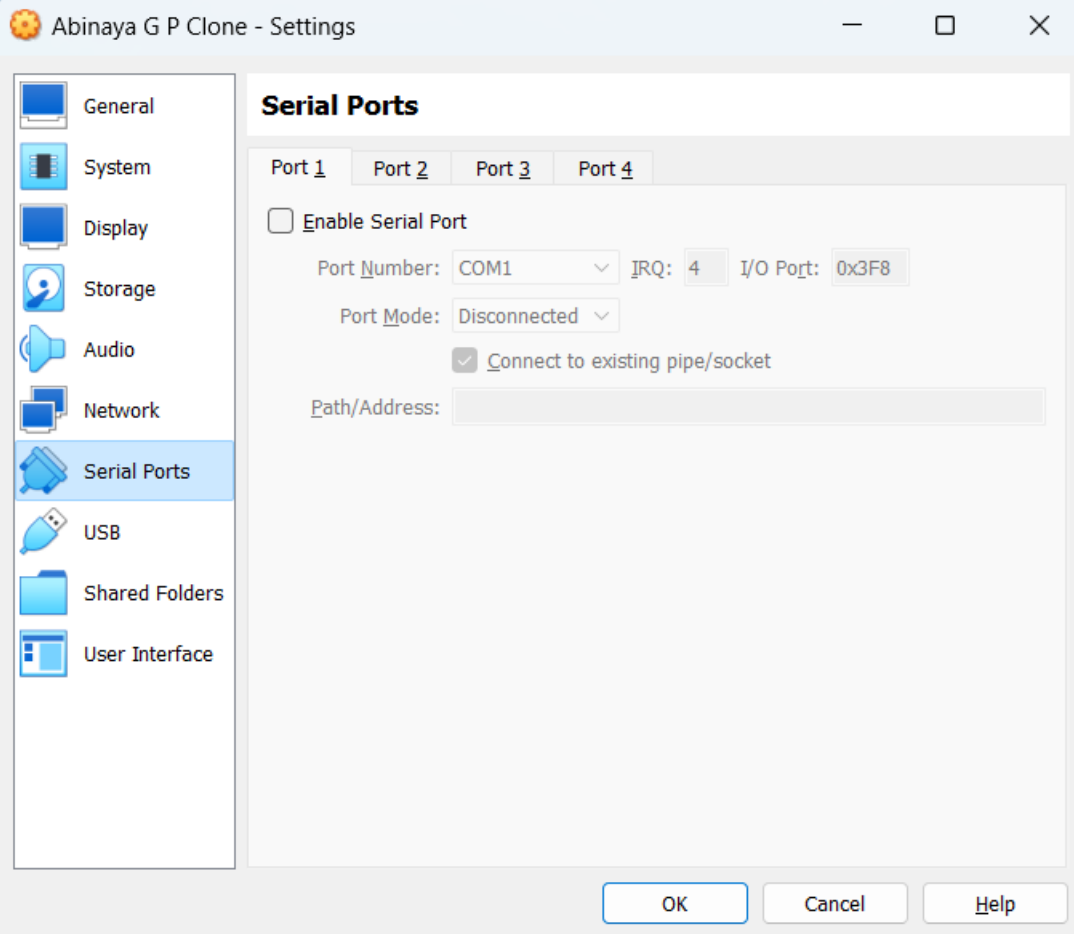


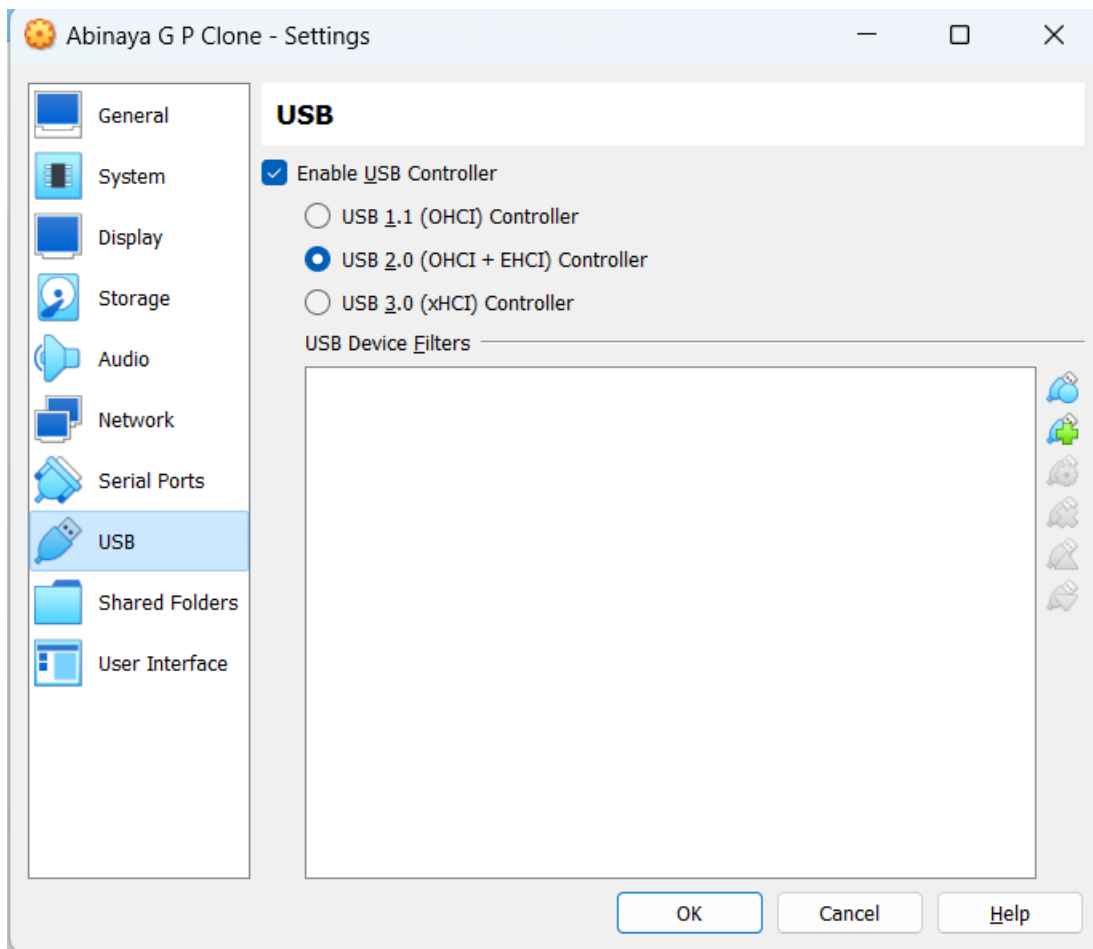


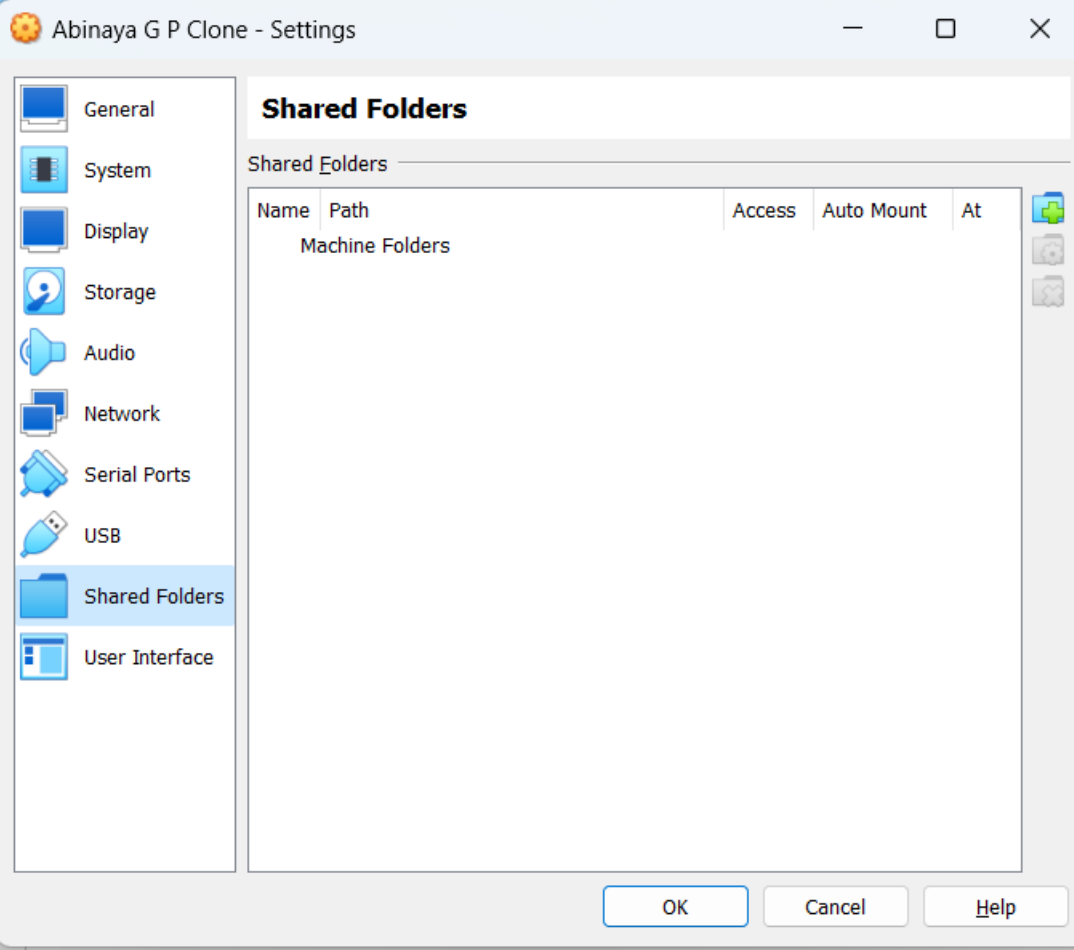




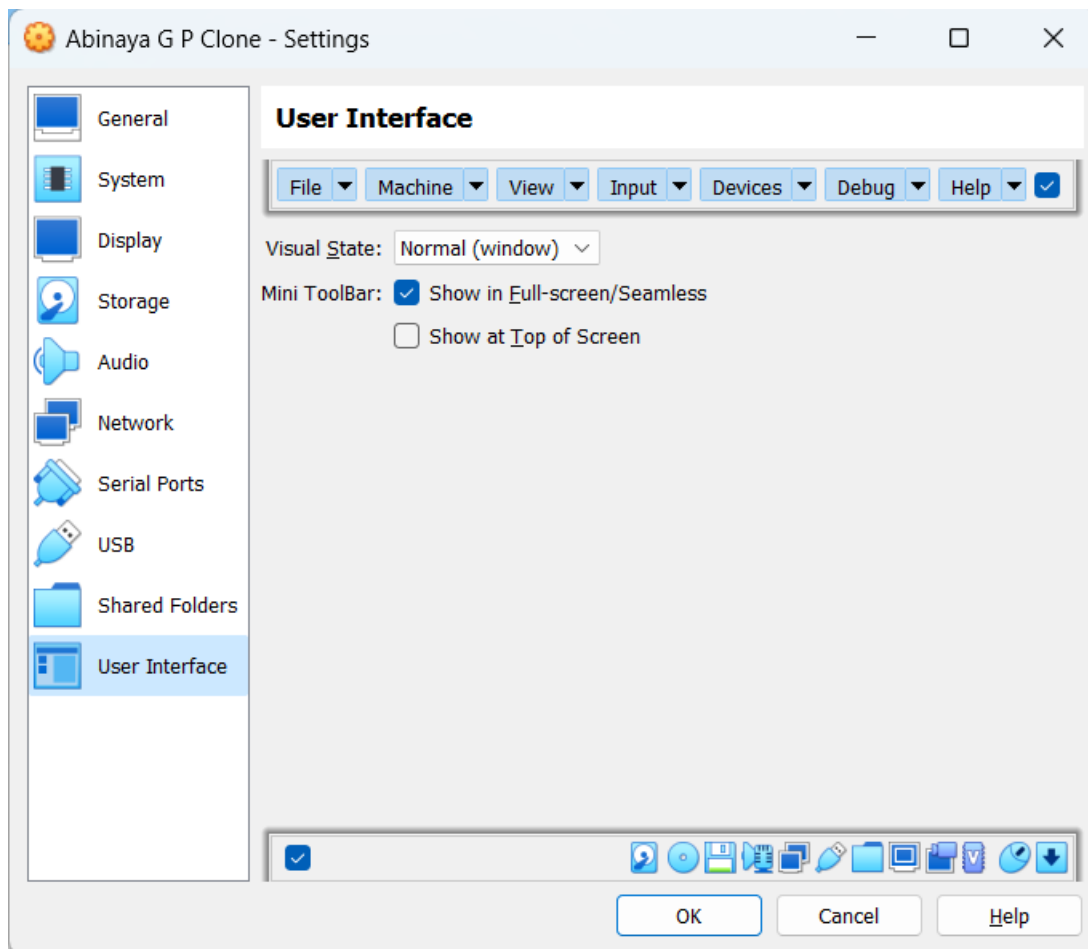






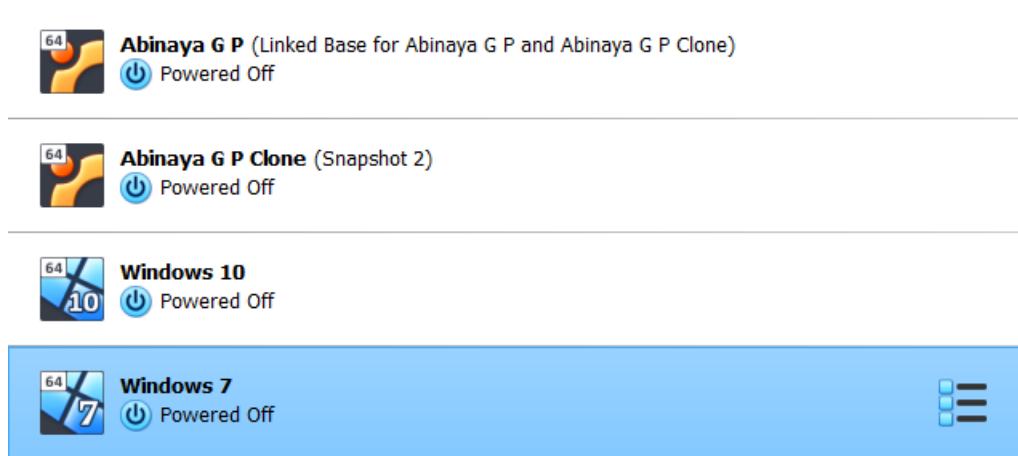






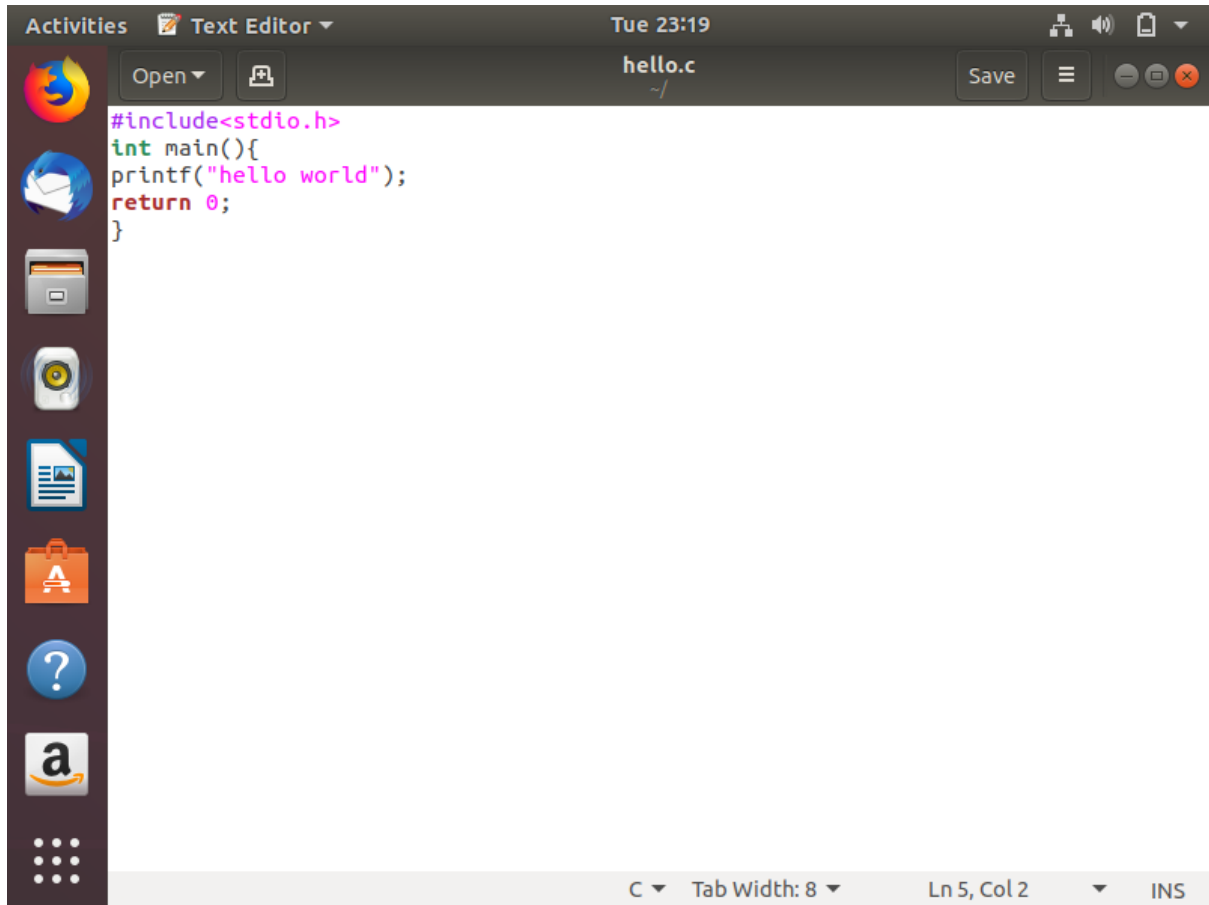
### Question 7:

Install Virtualbox/VMware Workstation with different flavours of linux or windows OS on top of your present windows environment.



### Question 8:

Install a C compiler in the virtual machine created using virtual box / VM Ware Workstation / Player and execute Simple C Programs.



The screenshot shows a Linux desktop environment. At the top is a dark grey panel with the 'Activities' button, a 'Text Editor' window title, and the time 'Tue 23:19'. Below this is a vertical dock on the left containing icons for Firefox, a mail client, a file manager, a terminal, a document viewer, a shopping cart, a help icon, and the Amazon logo. The main window is a text editor titled 'hello.c' with a subtitle '~/'. It contains the following C code:

```
#include<stdio.h>
int main(){
printf("hello world");
return 0;
}
```

The status bar at the bottom of the text editor shows 'C', 'Tab Width: 8', 'Ln 5, Col 2', and 'INS'.

