

Ex. No. 1

INSTALLATION OF VIRTUAL MACHINE IN VIRTUAL BOX

AIM:

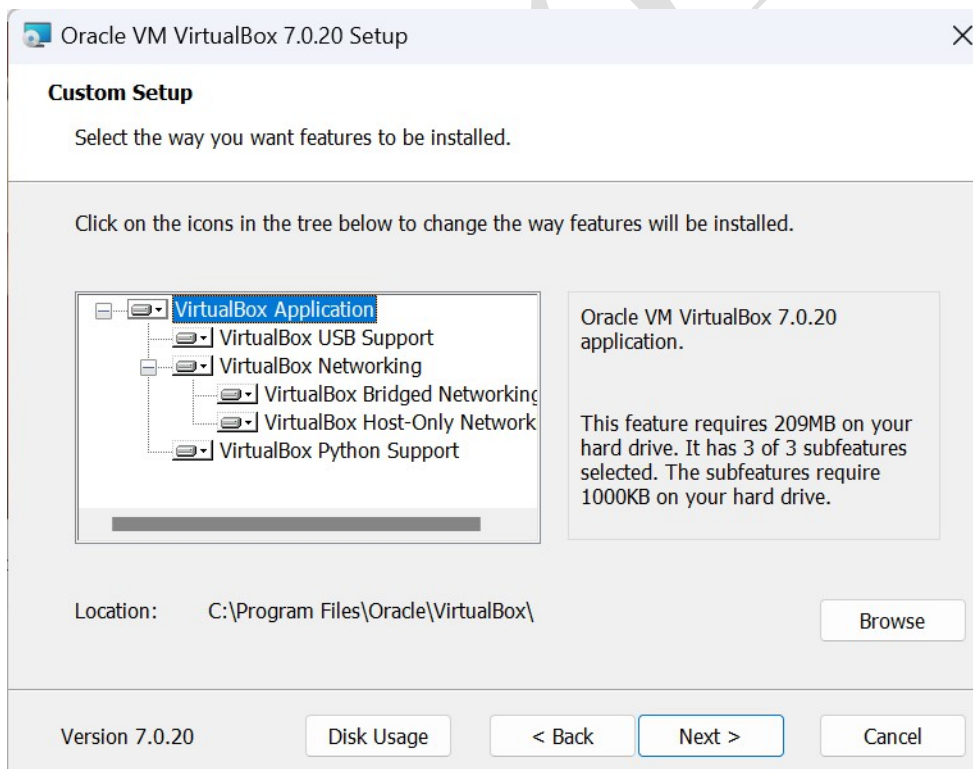
To configure a Virtual Machine using Virtual Box and Launch to execute a simple program

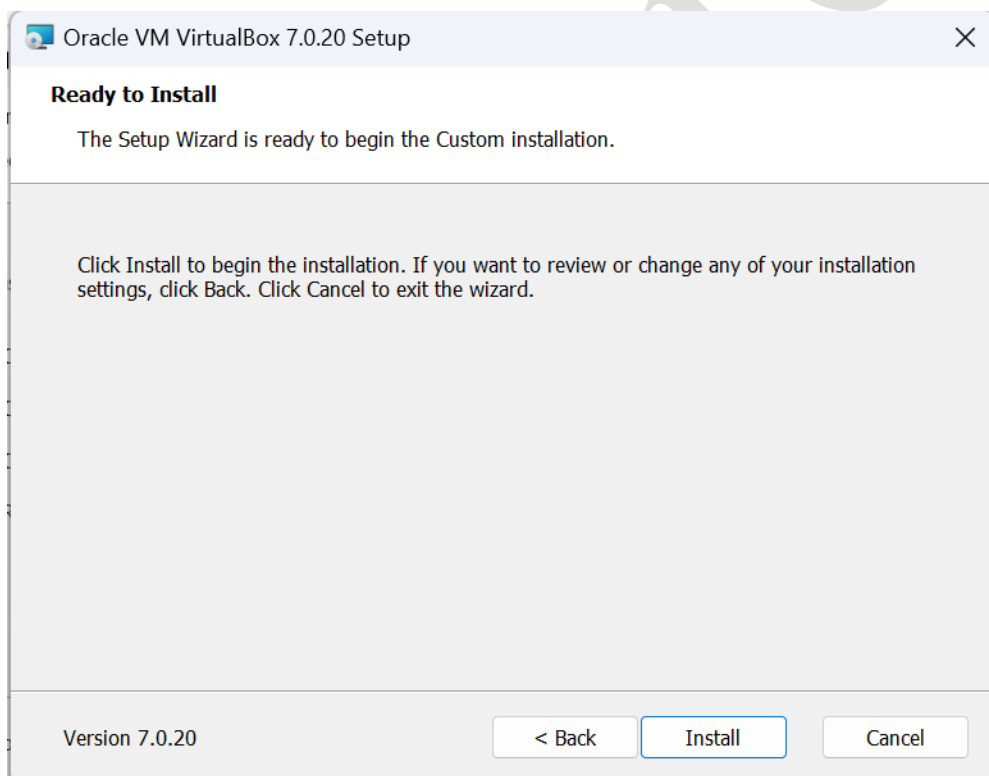
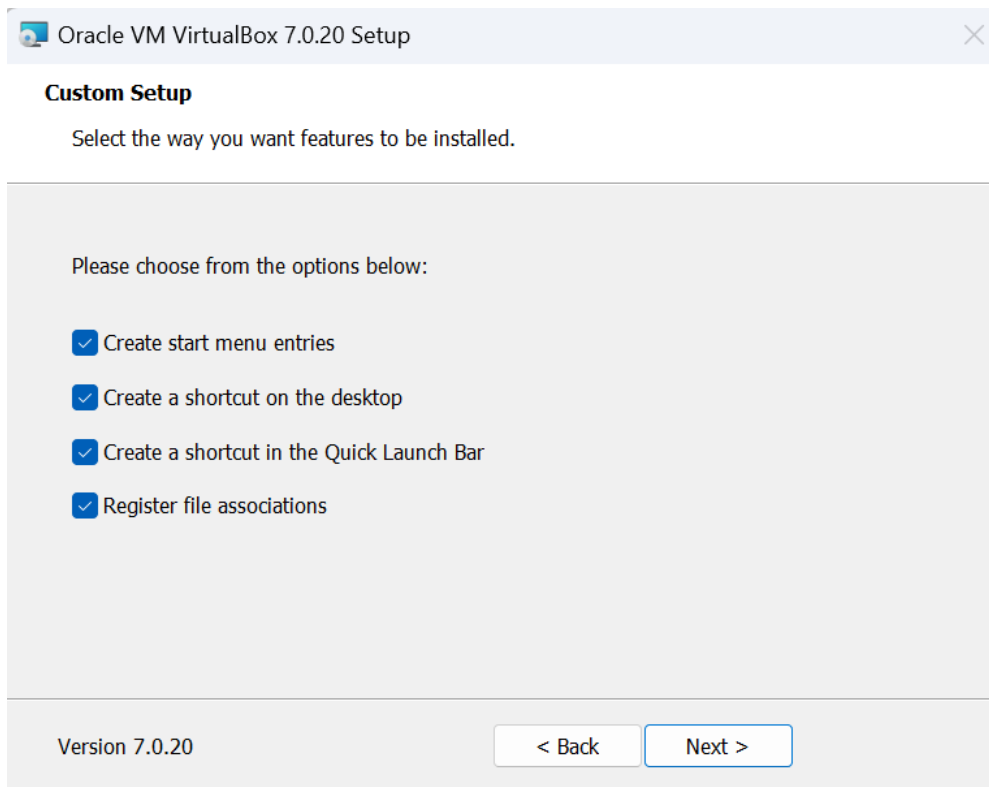
PROCEDURE:

1. Launch a Virtual Box
2. Create new virtual machine
3. Customize the set-up
4. Set username and password
5. Browse for .iso file of an operating system
6. Configure the hardware capacity
7. Finish and power on the VM
8. Install C or PYTHON OR JAVA Compiler and execute a simple program

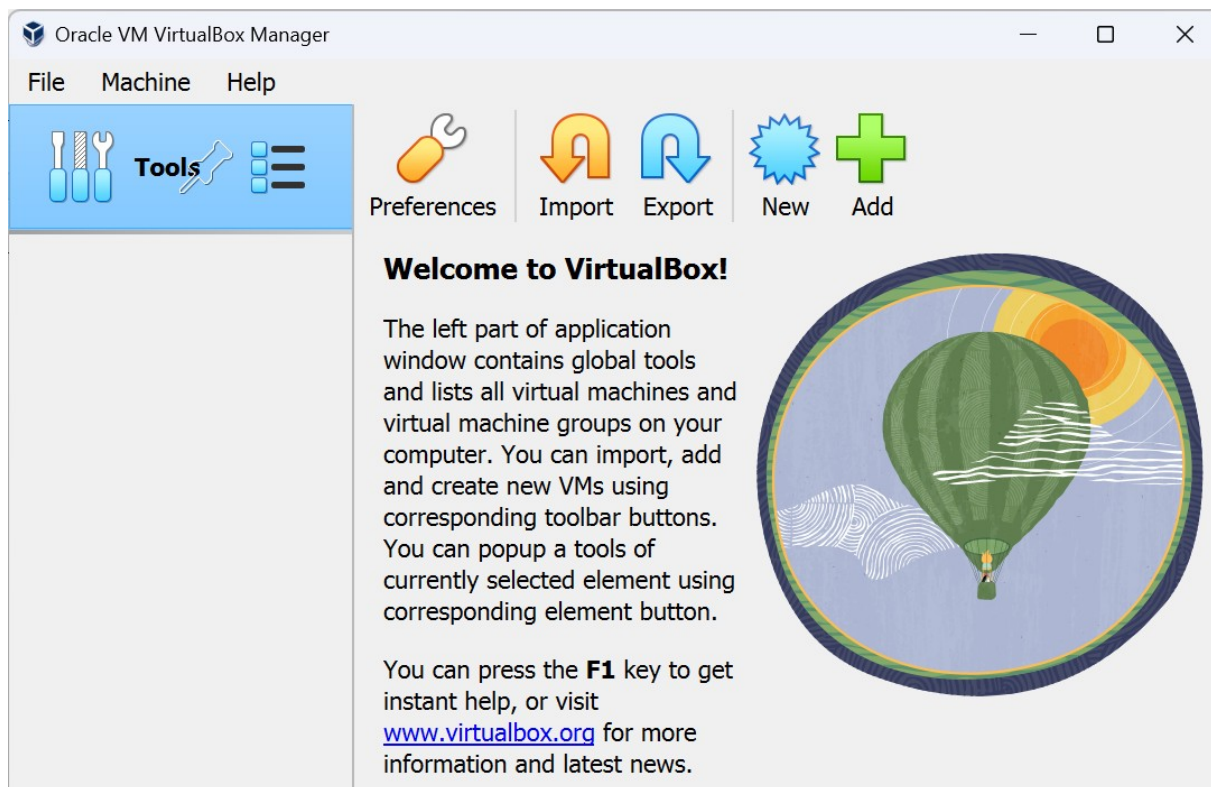
OUTPUT:

Download and run the VirtualBox installer

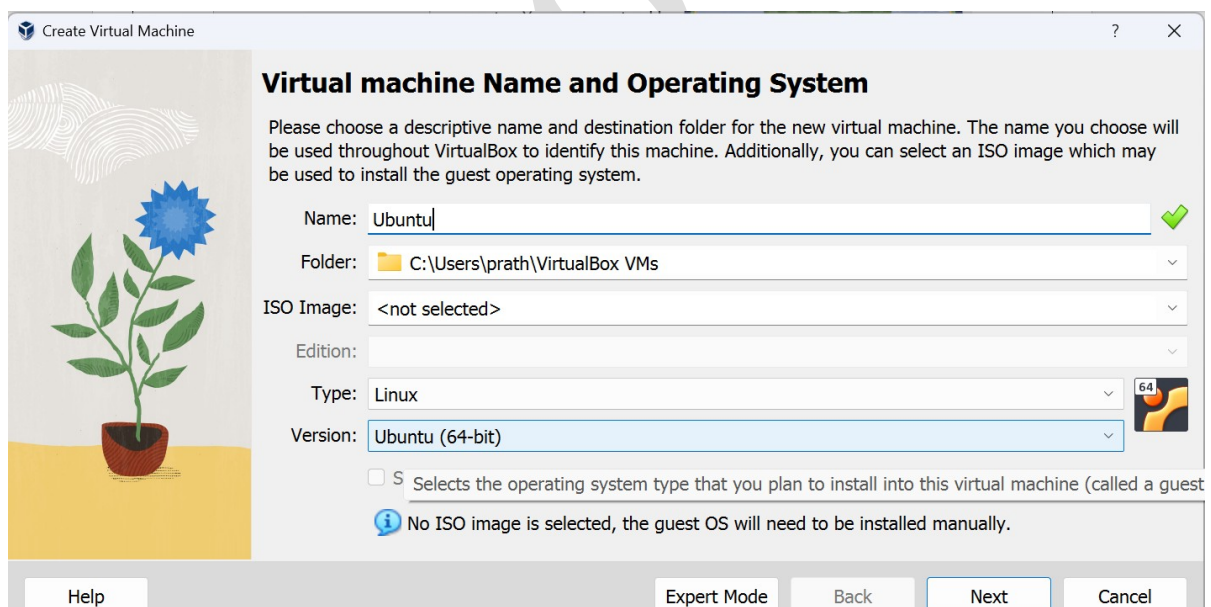


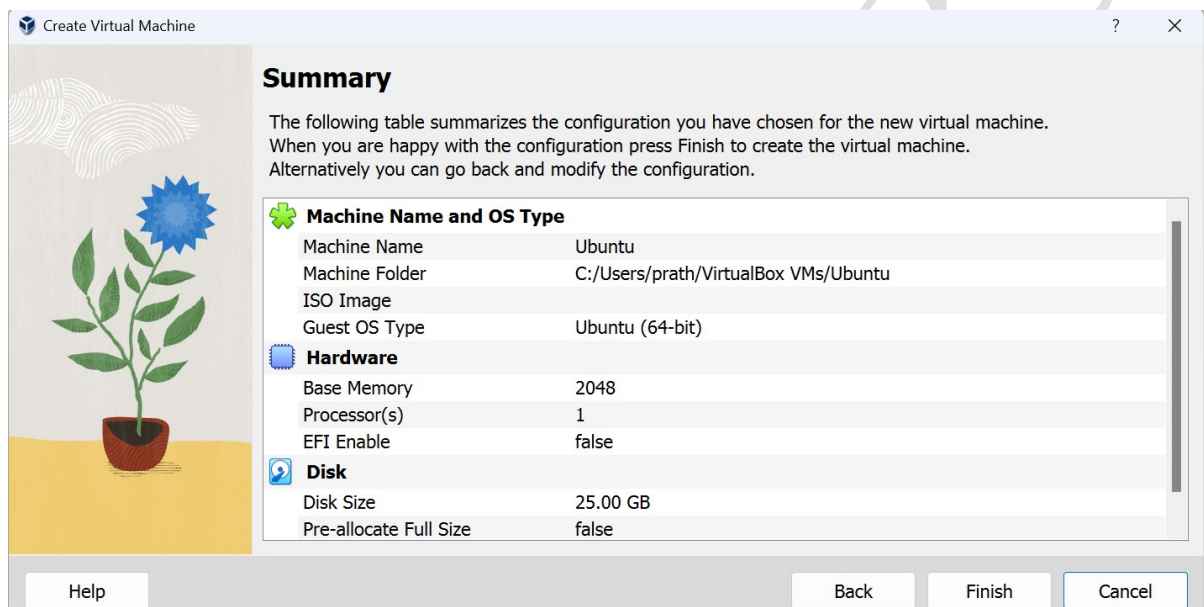
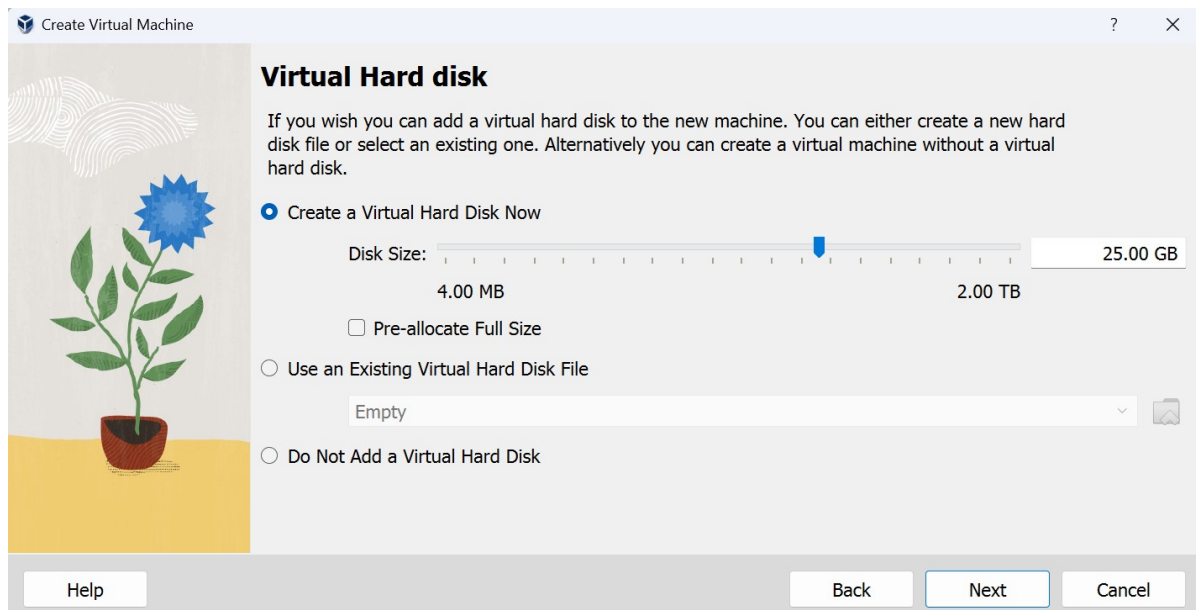


Open Oracle VM VirtualBox

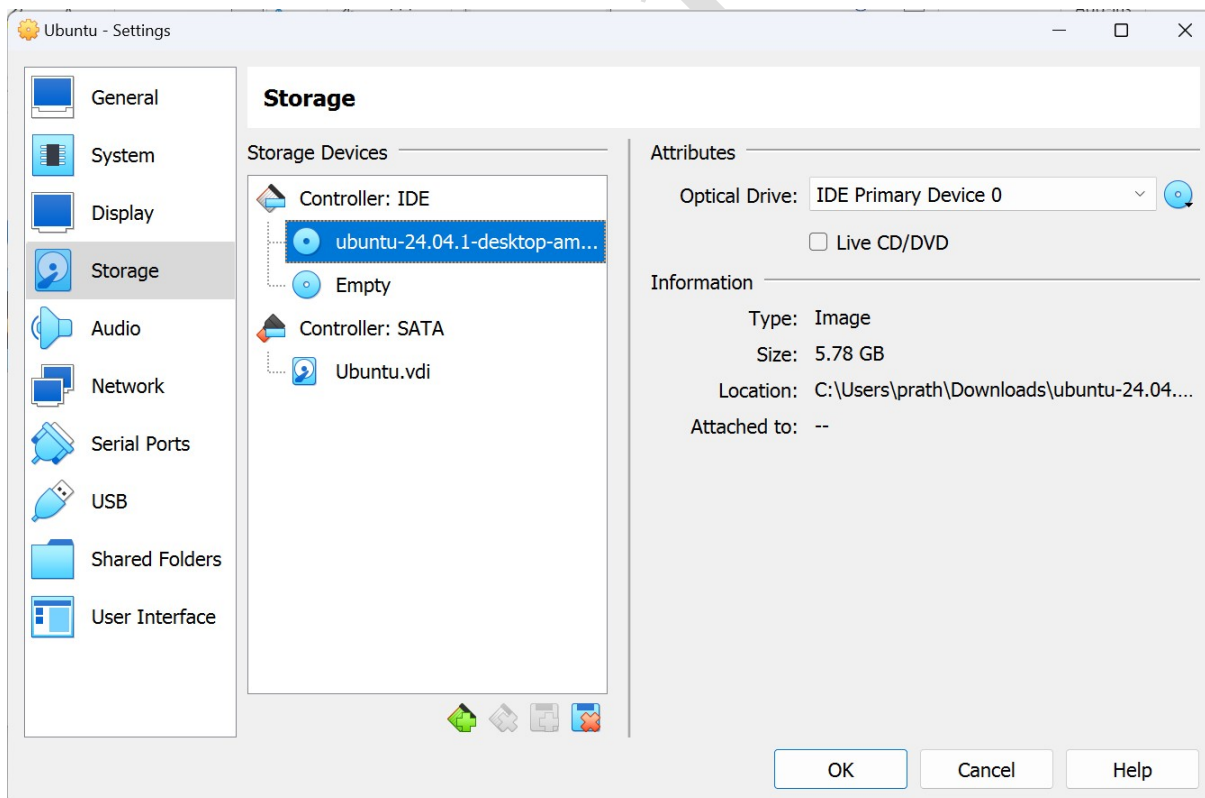
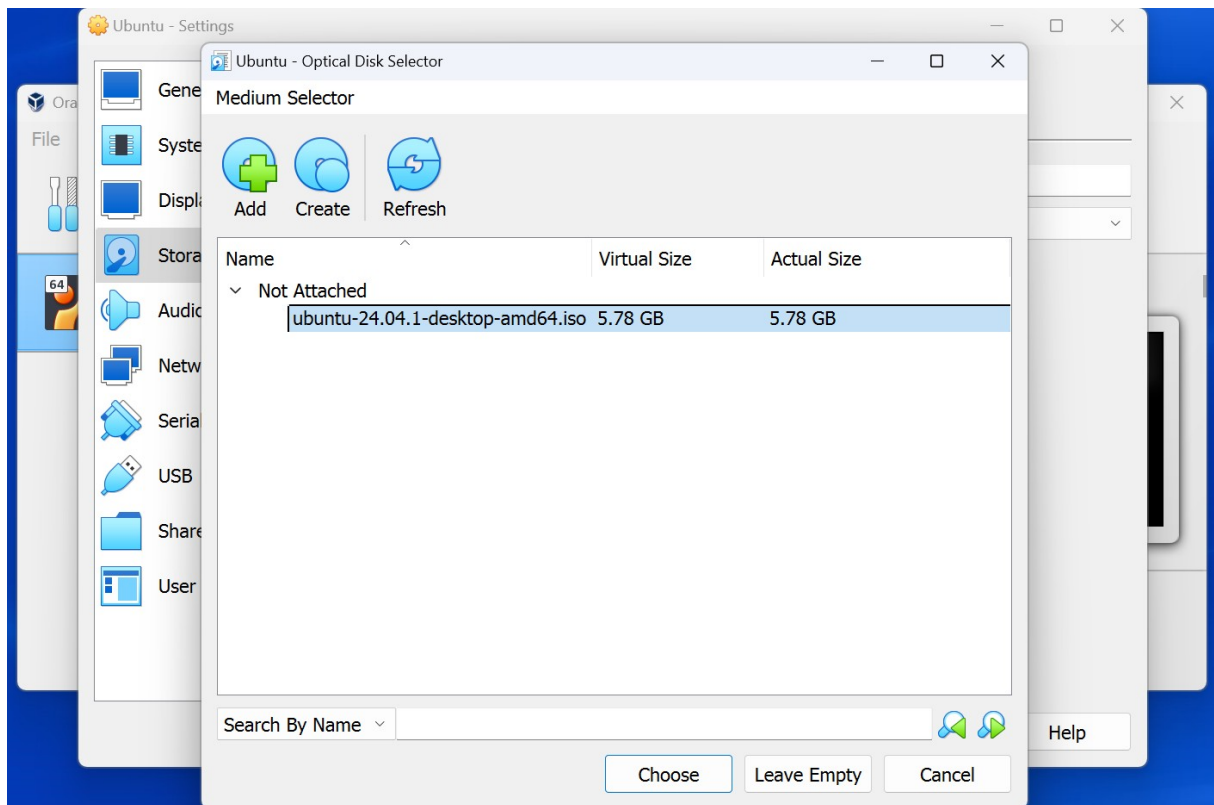


Click on 'New' and create a new virtual machine

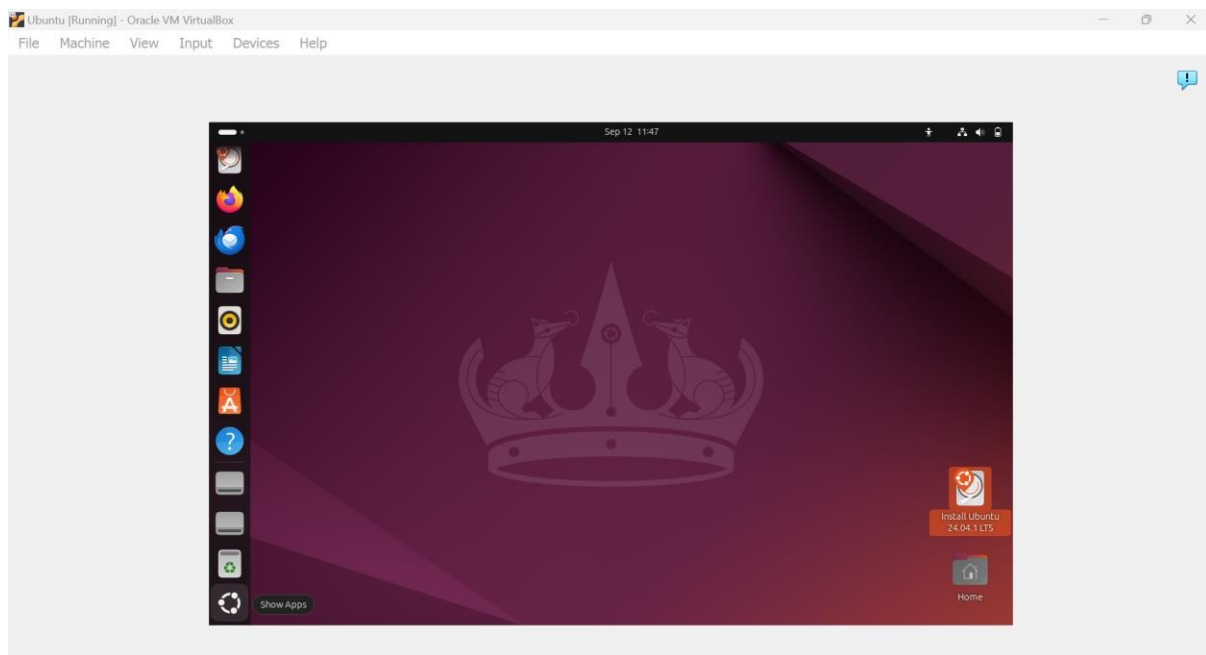




Launch the iso file of Ubuntu operating system into the virtual machine.



Start the virtual machine



Open terminal and install vim using the command:

`sudo apt install vim`

```
ubuntu@ubuntu: ~  
ubuntu@ubuntu:~$ sudo apt install vim  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  vim-common vim-runtime vim-tiny xxd  
Suggested packages:  
  ctags vim-doc vim-scripts indent  
The following NEW packages will be installed:  
  vim vim-runtime  
The following packages will be upgraded:  
  vim-common vim-tiny xxd  
3 upgraded, 2 newly installed, 0 to remove and 41 not upgraded.  
Need to get 10.4 MB of archives.  
After this operation, 41.6 MB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 vim-tiny amd64 2:9.1.0016-1ubuntu7.2 [803 kB]  
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 vim-common all 2:9.1.0016-1ubuntu7.2 [385 kB]  
Get:3 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 xxd amd64 2:9.1.0016-1ubuntu7.2 [63.0 kB]  
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 vim-runtime all 2:9.1.0016-1ubuntu7.2 [7278 kB]
```

Create a Python program and execute it

```
Processing triggers for man-db (2.12.1-1ubuntu1) ...  
ubuntu@ubuntu:~$ vim sumdigits.py  
ubuntu@ubuntu:~$ python3 sumdigits.py  
5432  
The sum of digits is: 14  
ubuntu@ubuntu:~$
```

RESULT:

A virtual machine is created using Virtual Box and a simple program is executed on the virtual machine.