Ex No. 1   **Date: 16.07.2024**

<u>VIRTUALIZATION</u>

<u>INSTALLATION OF VIRTUAL MACHINE IN VIRTUAL BOX</u>
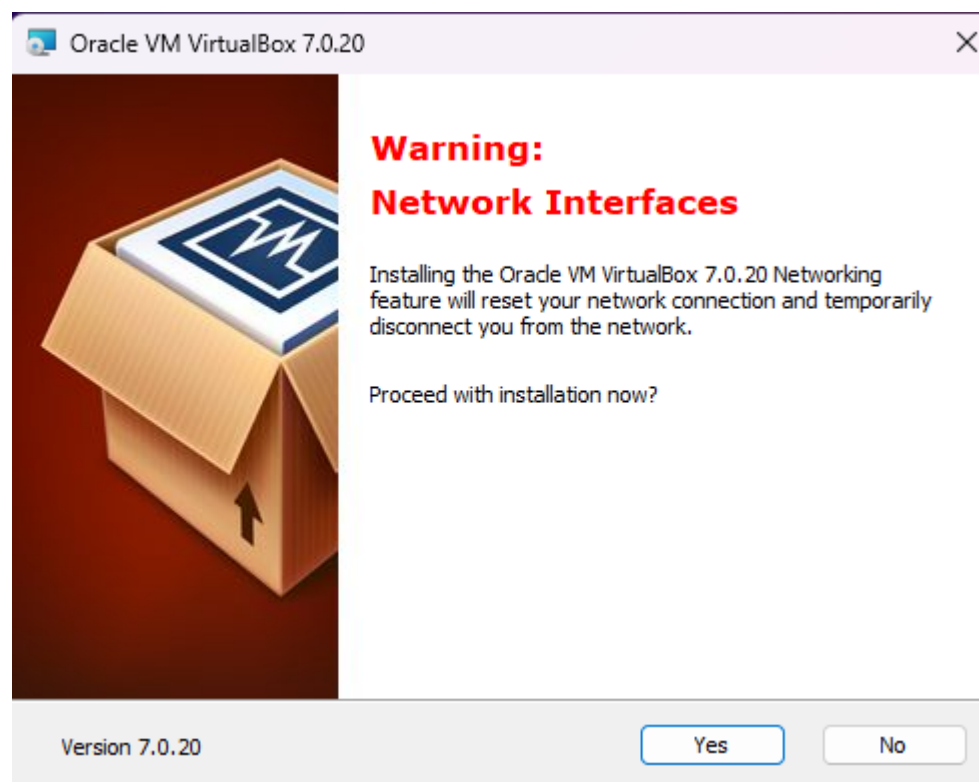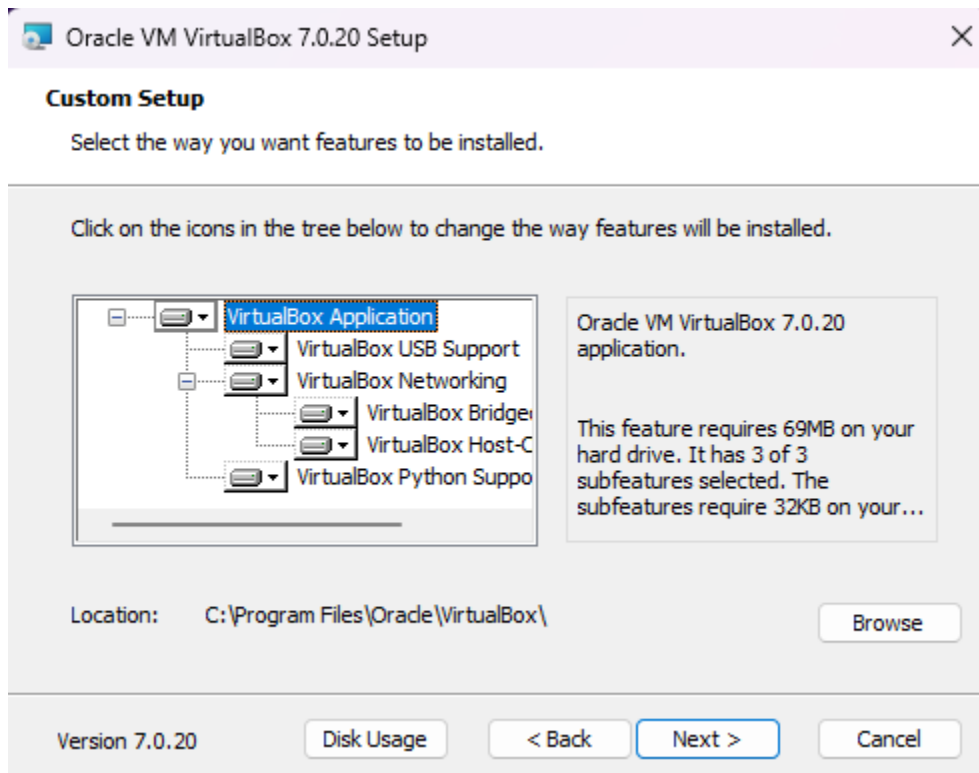
AIM:

      To configure a Virtual Machine using Virtual Box and Launch to execute a simple program using PYTHON.
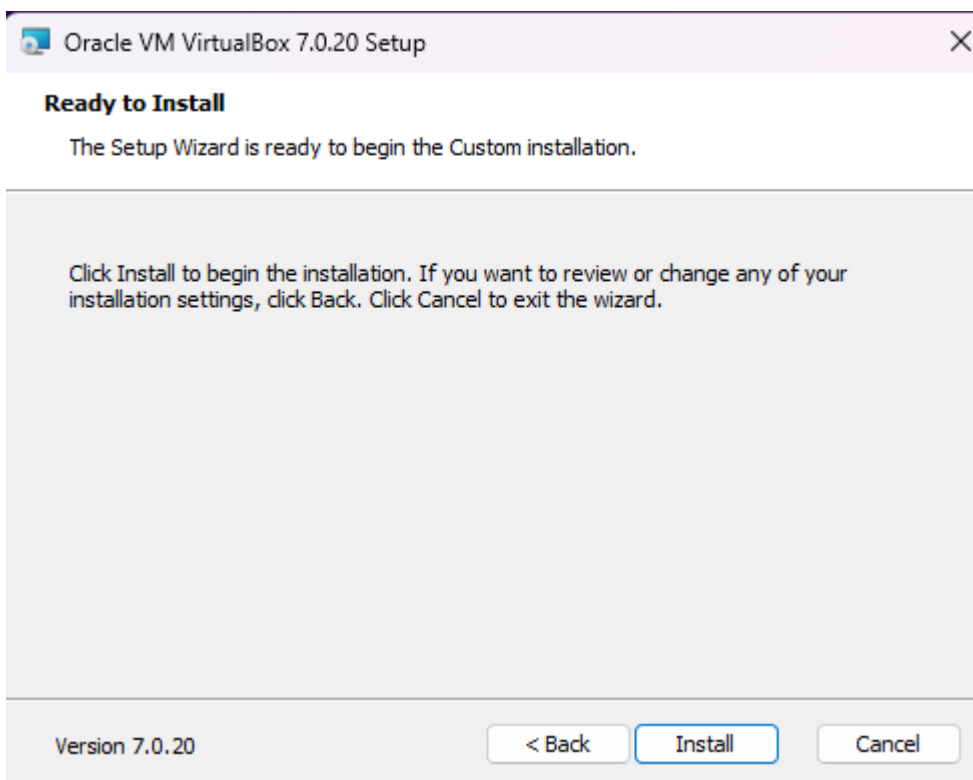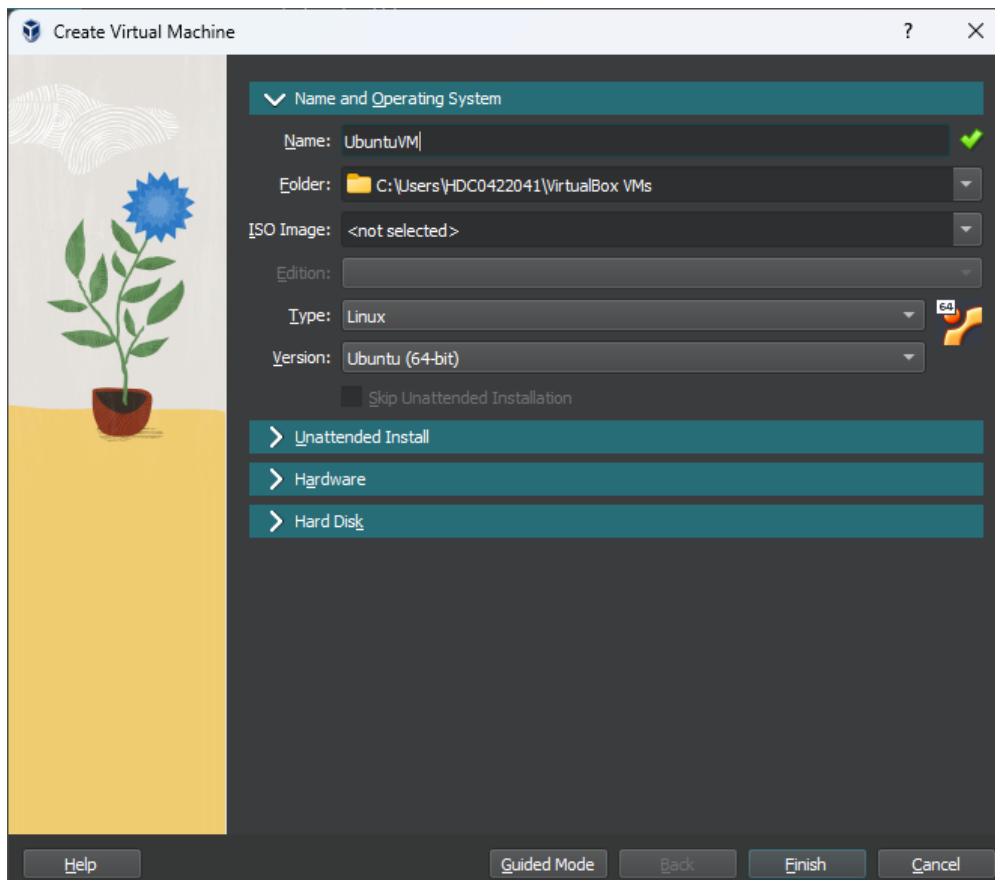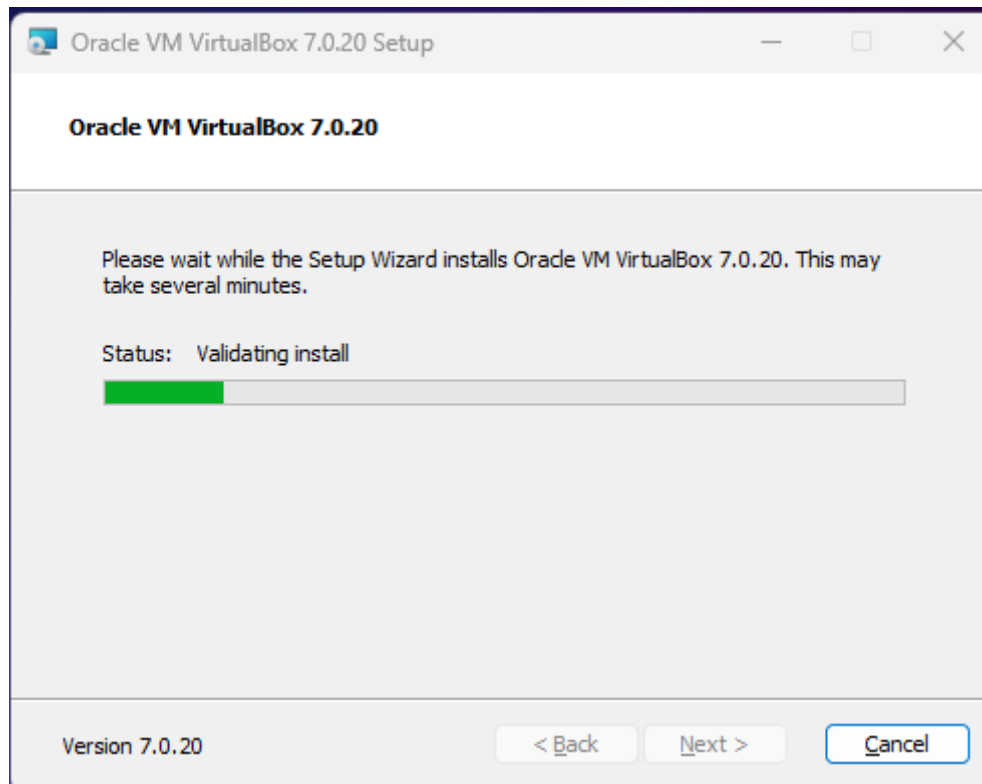
PROCEDURE:

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.

INSTALLATION:

Oracle VM VirtualBox 7.0.20 Setup ✕

Custom Setup

Select the way you want features to be installed.

Click on the icons in the tree below to change the way features will be installed.

VirtualBox Application
- VirtualBox USB Support
- VirtualBox Networking
  - VirtualBox Bridge
  - VirtualBox Host-C
- VirtualBox Python Suppo

Oracle VM VirtualBox 7.0.20 application.

This feature requires 69MB on your hard drive. It has 3 of 3 subfeatures selected. The subfeatures require 32KB on your...

Location: C:\Program Files\Oracle\VirtualBox\   Browse

Version 7.0.20   Disk Usage   < Back   Next >   Cancel

Oracle VM VirtualBox 7.0.20 ✕

Warning:

Network Interfaces

Installing the Oracle VM VirtualBox 7.0.20 Networking feature will reset your network connection and temporarily disconnect you from the network.

Proceed with installation now?

Version 7.0.20   Yes   No

Oracle VM VirtualBox 7.0.20 ✕

Missing Dependencies
Python Core / win32api

Installing the Oracle VM VirtualBox 7.0.20 Python bindings requires the Python Core package and the win32api bindings to be installed first.

When continuing the installation of the Oracle VM VirtualBox 7.0.20 Python bindings now, those need to be set up manually later. Refer to the Oracle VM VirtualBox 7.0.20 SDK manual for more information.

Proceed with installation now?

Version 7.0.20   [Yes]   [No]

Oracle VM VirtualBox 7.0.20 Setup ✕

Ready to Install

The Setup Wizard is ready to begin the Custom installation.

Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

Version 7.0.20   [< Back]   [**Install**]   [Cancel]

PROGRAM:


```python
def sum_of_digits(n):
    sum=0
    while(n!=0):
        rem=n%10
        sum+=rem
        n=n//10
    return sum
n=int(input("Enter a number:"))
print("The sum of digits:",sum_of_digits(n))
```

OUTPUT:


```
ubuntu@ubuntu:~/Desktop$ vim sum_of_digits.py
ubuntu@ubuntu:~/Desktop$ python3 sum_of_digits.py
Enter a number:123
The sum of digits: 6
ubuntu@ubuntu:~/Desktop$
```

RESULT:

       The virtual machine of Ubuntu OS was created using a virtual box. Ubuntu virtual machine running in Virtual Box.