



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF TECHNOLOGY

DHULE (M.S.)

DEPARTMENT OF COMPUTER ENGINEERING

Subject : Cloud Computing Lab	Remark
Name : Mohammad Anas Aarif Baig Mirza	Roll No. : 40
Class : B.tech Final Year	Batch : B2
Expt. No. :04	Division: -
	Date : 10/09/2025
Title : Installation and configuration of virtual machine.	Signature

Hardware/Software Required: 2GB RAM,320 GB hard, dual core processor Virtual Box, Windows8 OS.

Theory:

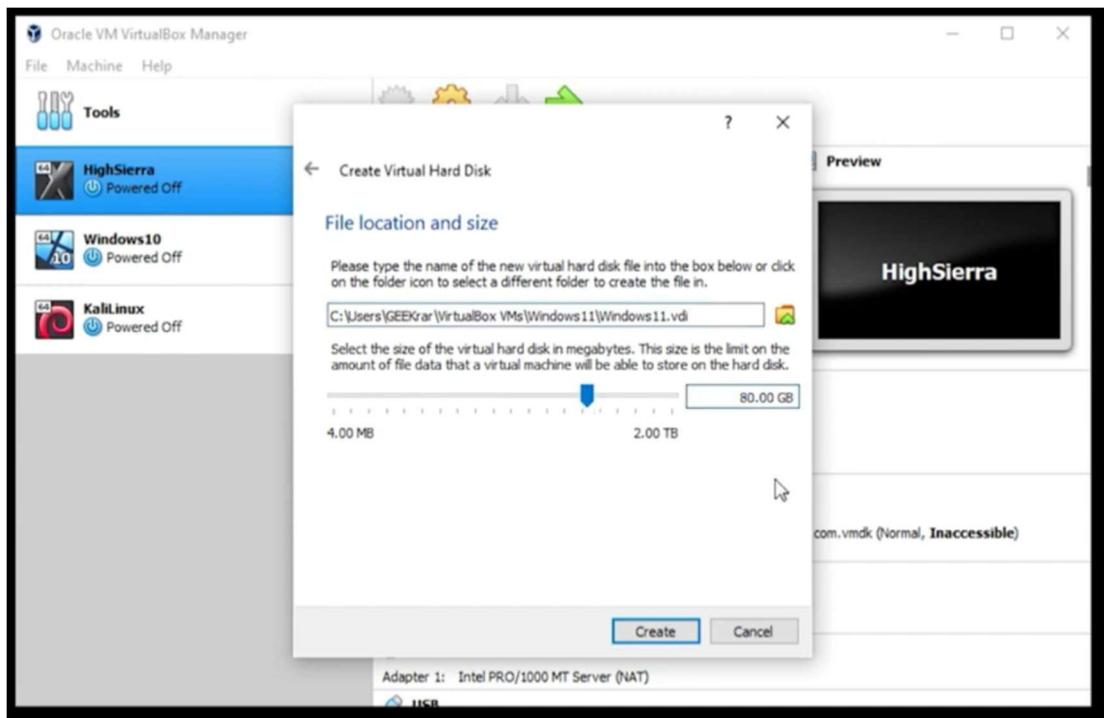
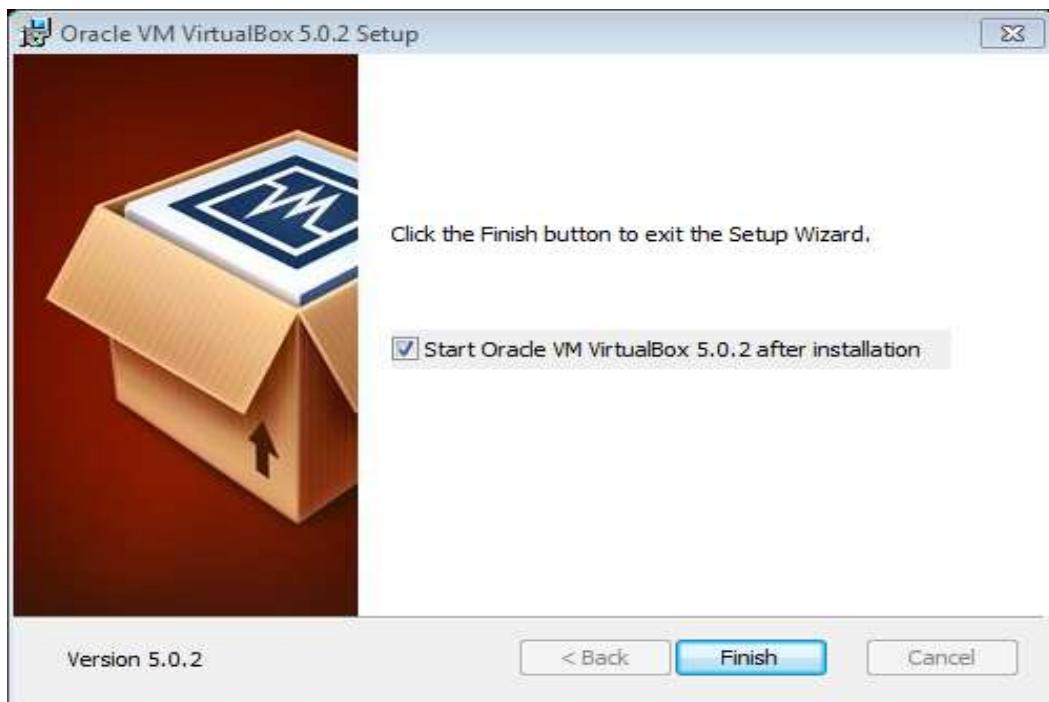
Virtualization is the creation of a virtual version of something, such as an operating system, a server, a storage device or network resources.

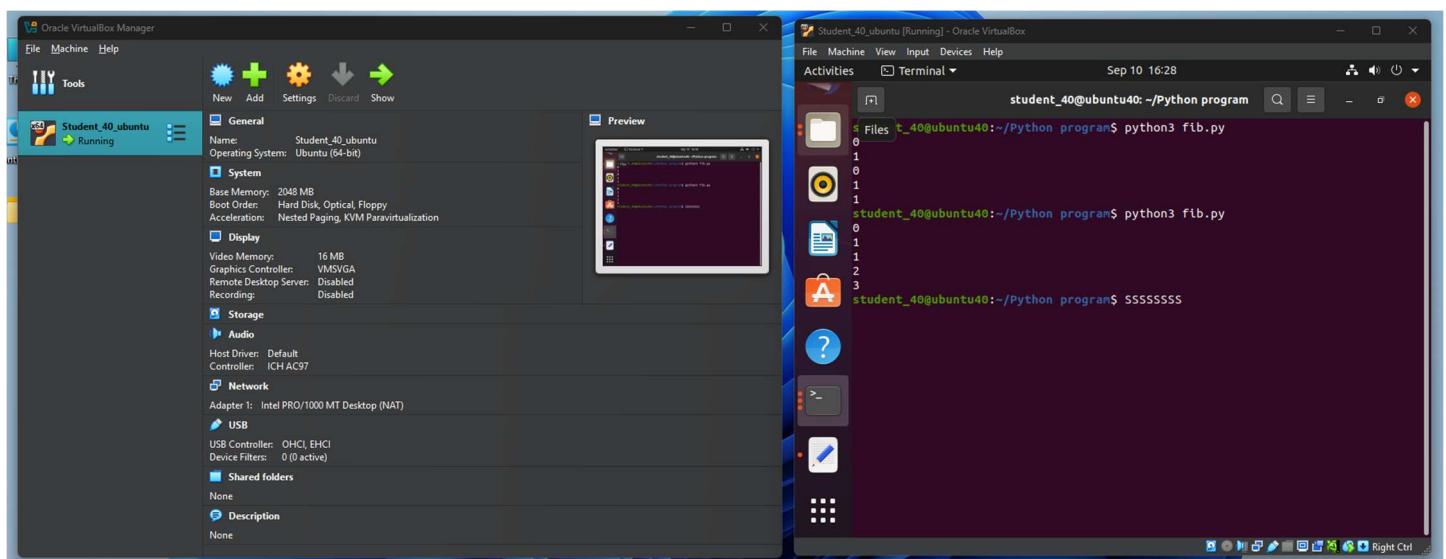
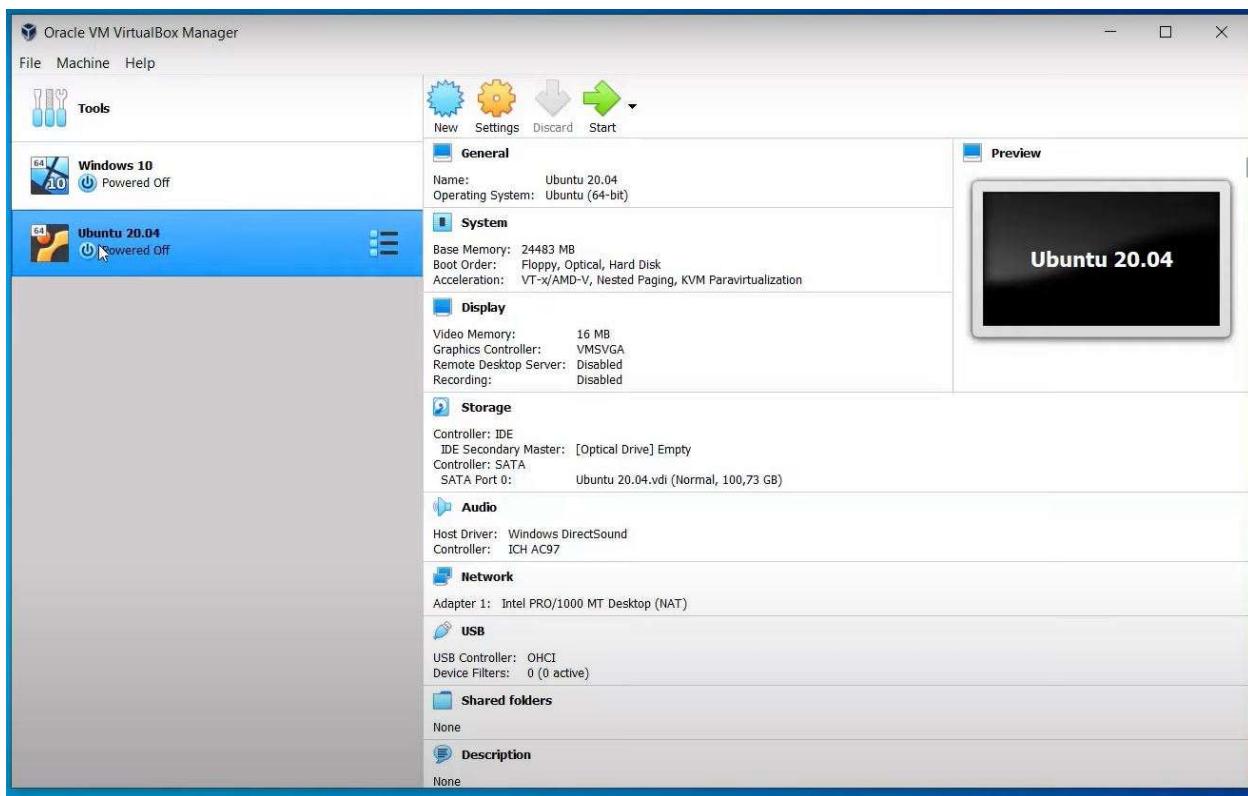
Advantages of virtual installation:

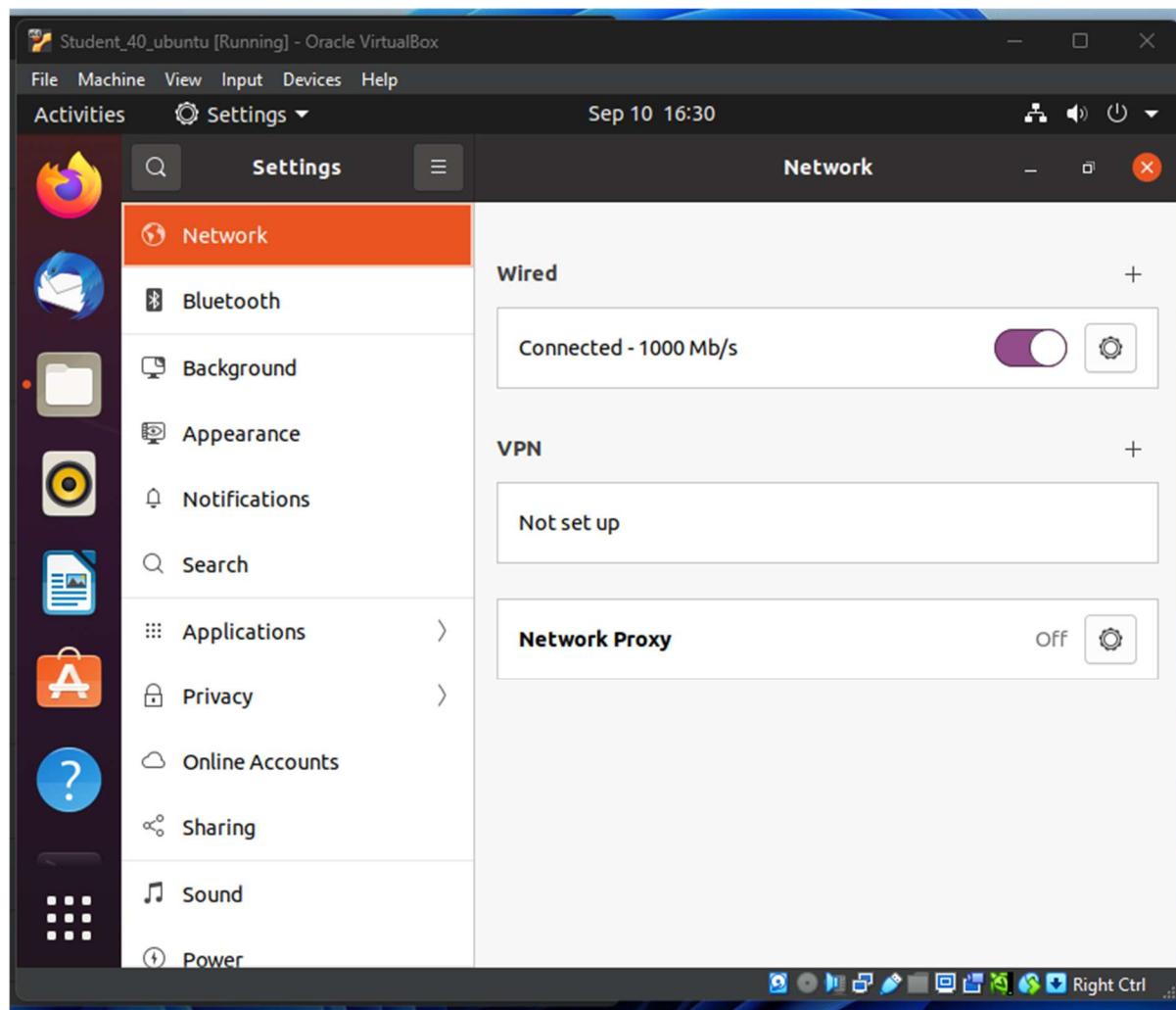
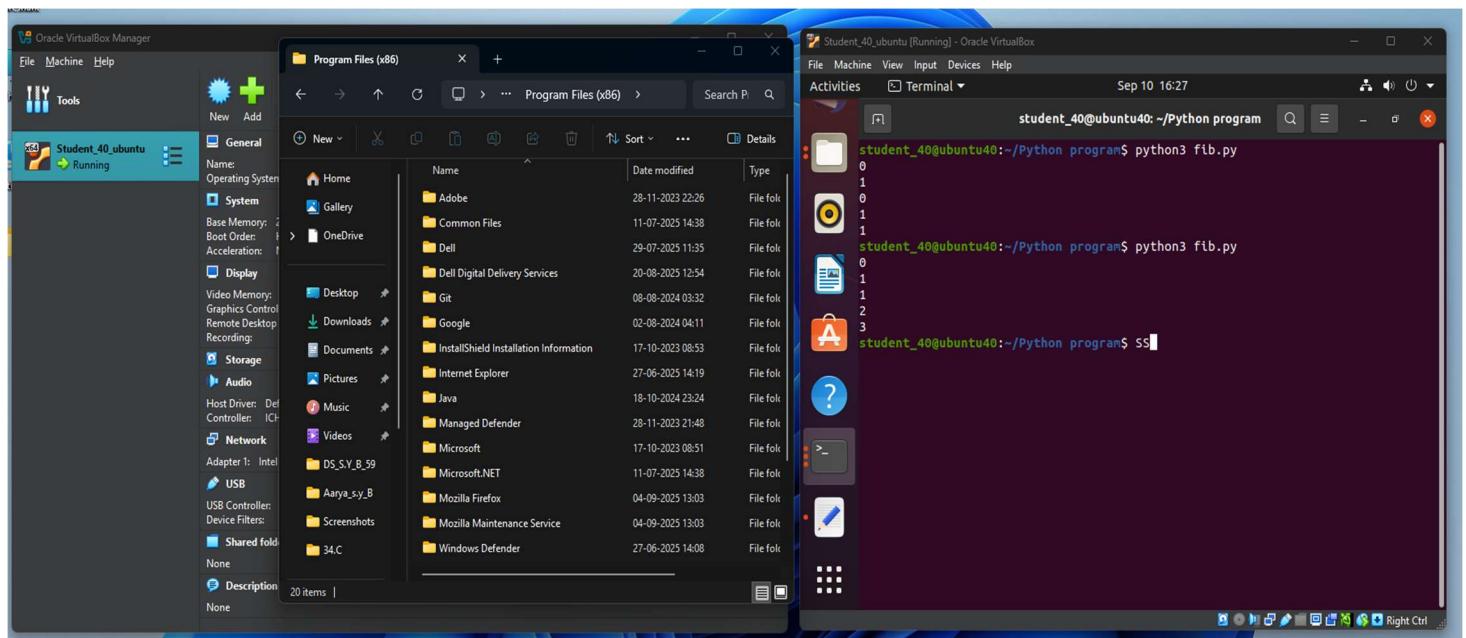
The size of the installation doesn't have to be predetermined. It can be a dynamically resized virtual hard drive. We do not need to reboot in order to switch between different OS. The virtual machine will use our main OS internet connection. The virtual machine will set up its own video configuration, so we don't have to worry about installing proprietary graphics drivers to get a reasonable screen resolution. It's low commitment. If we later decide you don't like Ubuntu, all we have to do is Delete the virtual hard drive and uninstall VirtualBox.

Procedure/ Program:

1. The Installation process of Virtual box
2. Installation of virtual OS in virtual box
3. Run The Python3 Program on Ubuntu
 - a) Palindrome Check
 - b) Factorial Generate
 - c) Fibonacci Series Generation







A screenshot of a Linux desktop environment, likely Ubuntu, running in Oracle VirtualBox. The window title is "Student_40_ubuntu [Running] - Oracle VirtualBox". The application is a Text Editor with three tabs open: "*plindrome.py", "*fib.py", and "fact.py". The "fact.py" tab is active, showing the following Python code:

```
1 num = 5
2 for i in range(1 , num+1):
3     fact = fact*i
4 print(f"Factorial of {num} is {fact}")
```

A screenshot of a Linux desktop environment, likely Ubuntu, running in Oracle VirtualBox. The window title is "Student_40_ubuntu [Running] - Oracle VirtualBox". The application is a Text Editor with two tabs open: "*plindrome.py" and "*fib.py". The "*plindrome.py" tab is active, showing the following Python code:

```
1 string = 'abba'
2 string2 = string[::-1]
3 if string == string2:
4     print("String is Plindrome")
5 else:
6     print("String is not Plindrome")
```

Student_40_ubuntu [Running] - Oracle VirtualBox

File Machine View Input Devices Help

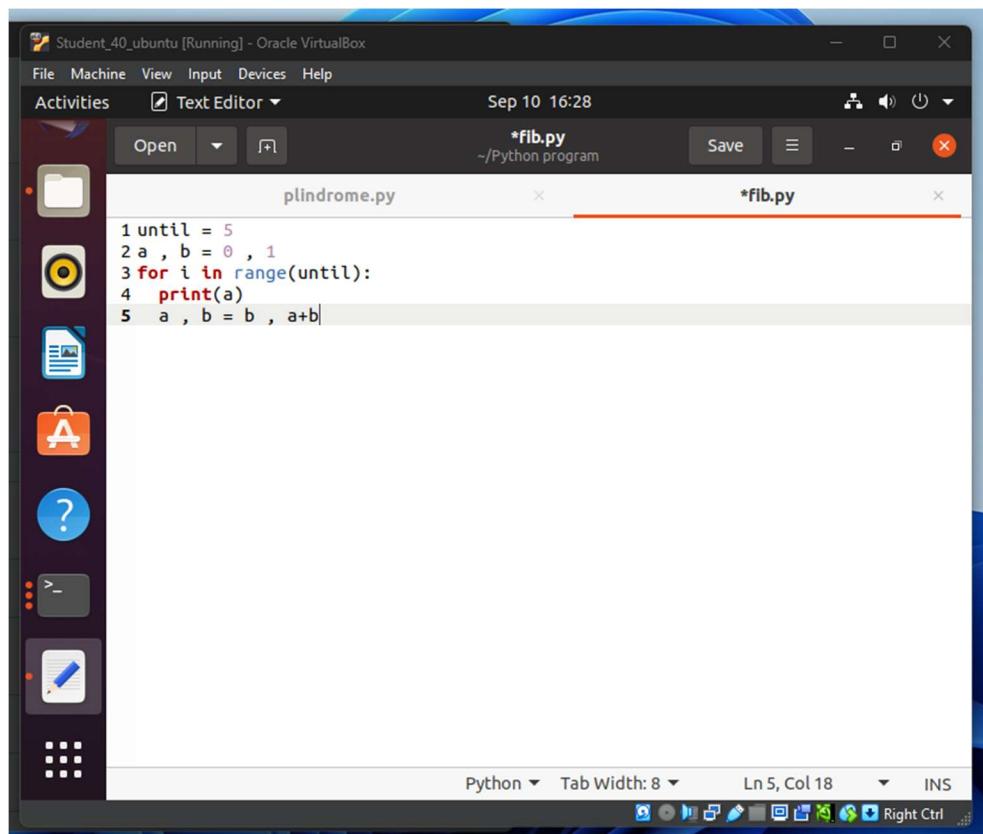
Activities Text Editor Sep 10 16:28

Open + *fib.py ~/Python program Save X

plindrome.py *fib.py

```
1 until = 5
2 a , b = 0 , 1
3 for i in range(until):
4     print(a)
5     a , b = b , a+b|
```

Python Tab Width: 8 Ln 5, Col 18 INS



Student_40_ubuntu [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Activities Terminal Sep 10 16:45

student_40@ubuntu40:~/Python program\$ python3 fib.py

```
0
1
0
1
1
student_40@ubuntu40:~/Python program$ python3 fib.py
```

student_40@ubuntu40:~/Python program\$ touch fact

student_40@ubuntu40:~/Python program\$ touch fact.py

student_40@ubuntu40:~/Python program\$ python3 fact.py

Traceback (most recent call last):

```
  File "fact.py", line 3, in <module>
    fact = fact*1
NameError: name 'fact' is not defined
student_40@ubuntu40:~/Python program$ python3 fact.py
```

Factorial of 5 is 1

student_40@ubuntu40:~/Python program\$ python3 fact.py

Factorial of 5 is 120

student_40@ubuntu40:~/Python program\$

