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Roll No : 05

CC Lab 1

Part-1

Aim: Demonstrate implementation of Para-Virtualization using Oracle Virtual Box and Guest OS.

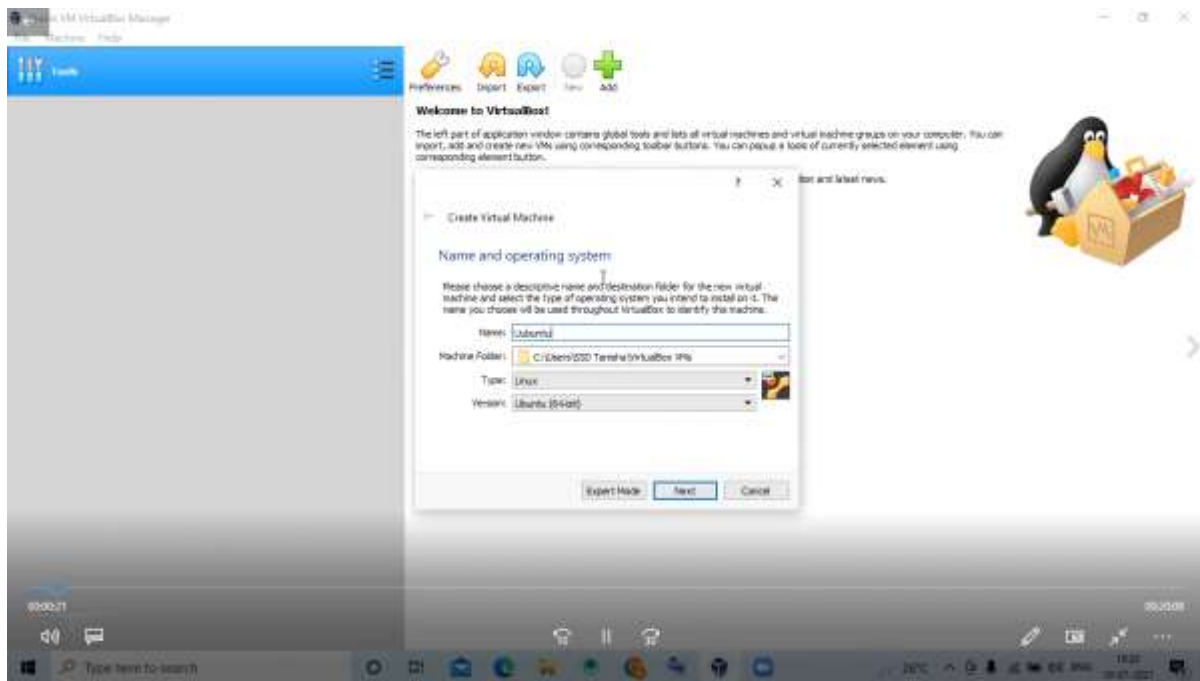
Task:

To find procedure to run the virtual machine of different configuration and check how many virtual machines can be utilized at particular time.

Procedure:

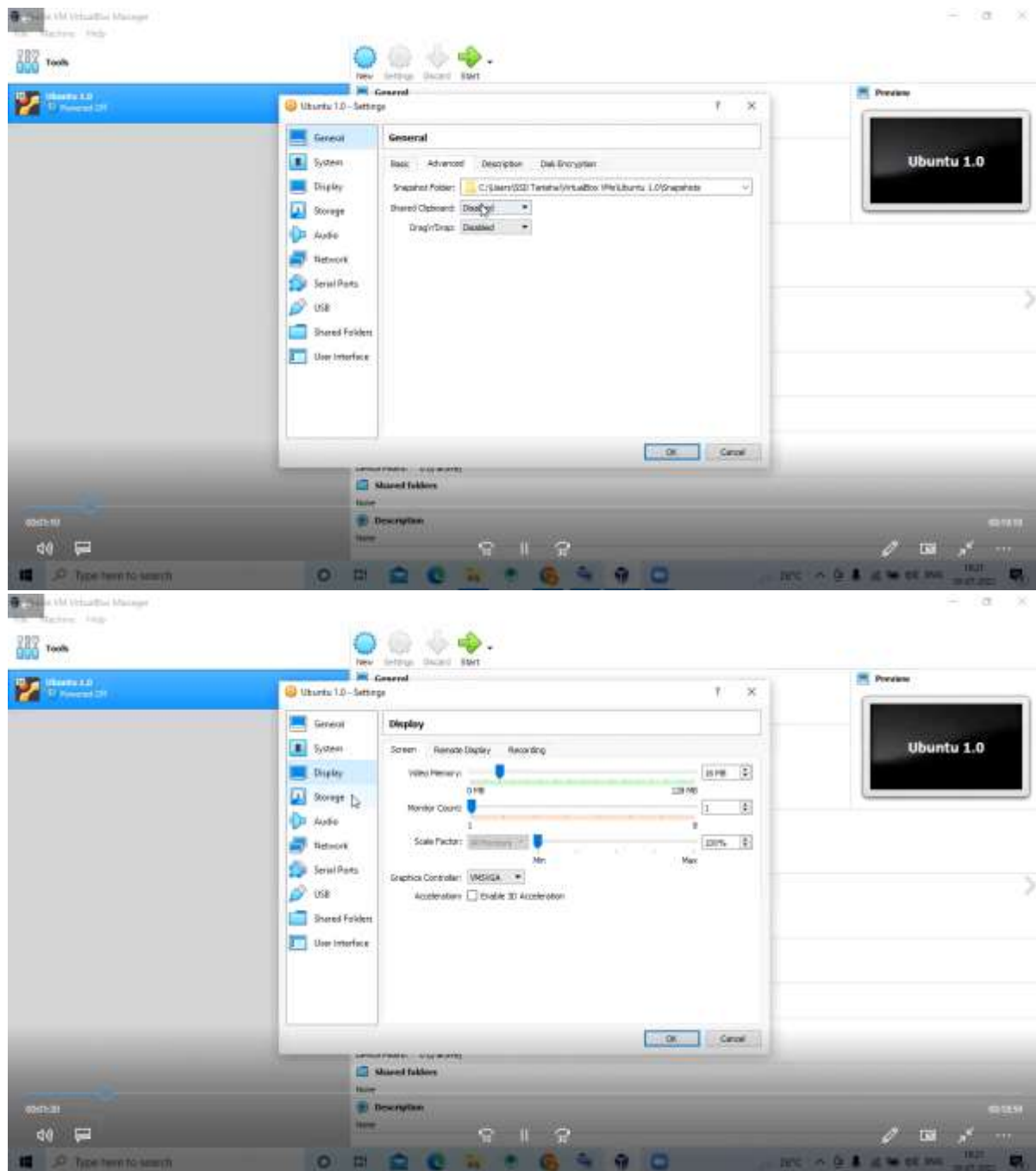
Installing Ubuntu using Oracle VirtualBox

1. Begin by launching the Oracle VirtualBox Manager and then select "Create New" followed by "Virtual Machine."

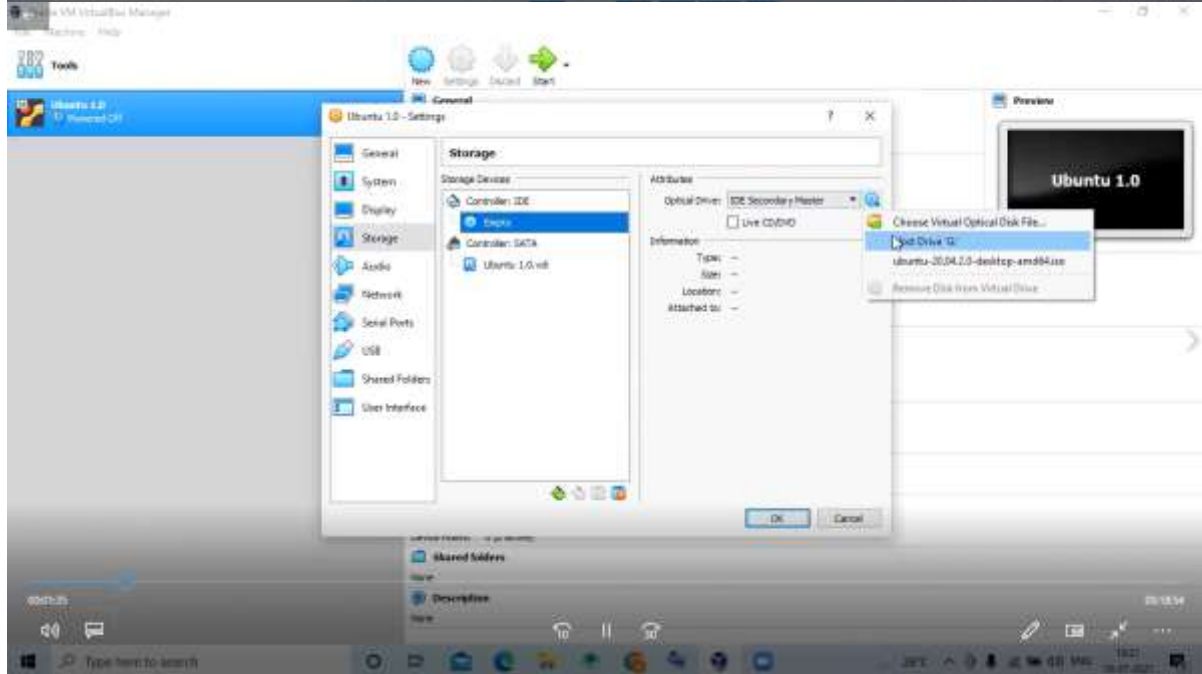
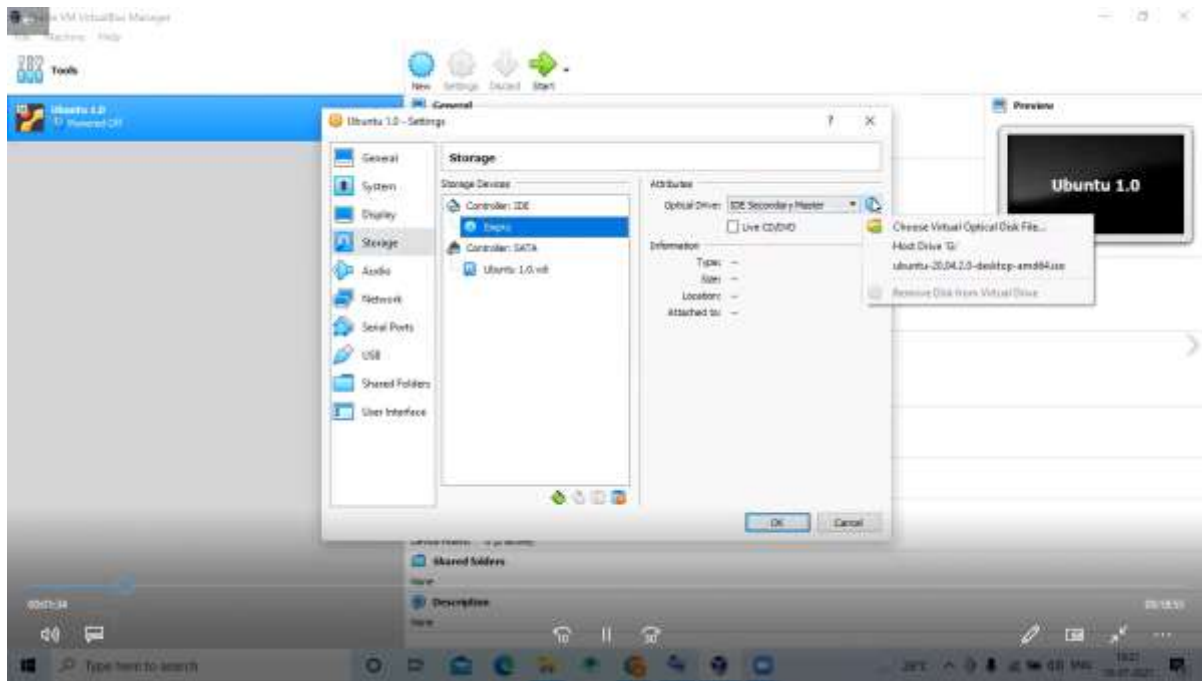


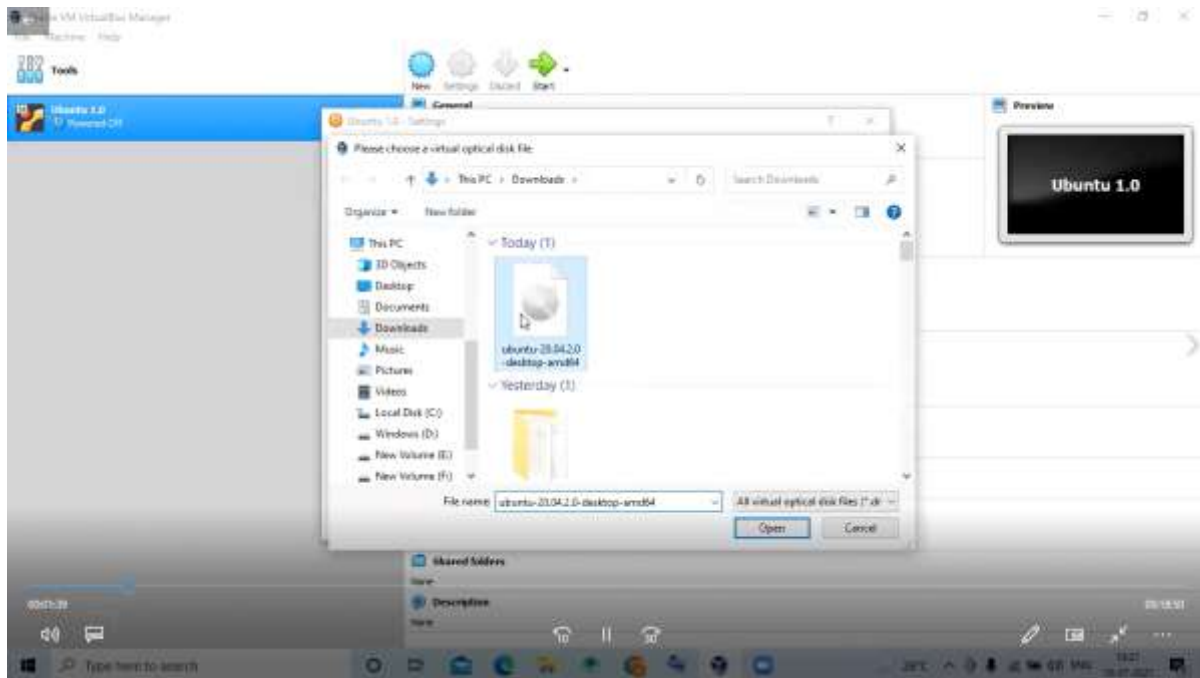
2. Proceed to the "Settings" menu and configure the necessary options as depicted in the provided images:

- Enable bidirectional sharing
- Allocate the desired amount of RAM and CPU resources

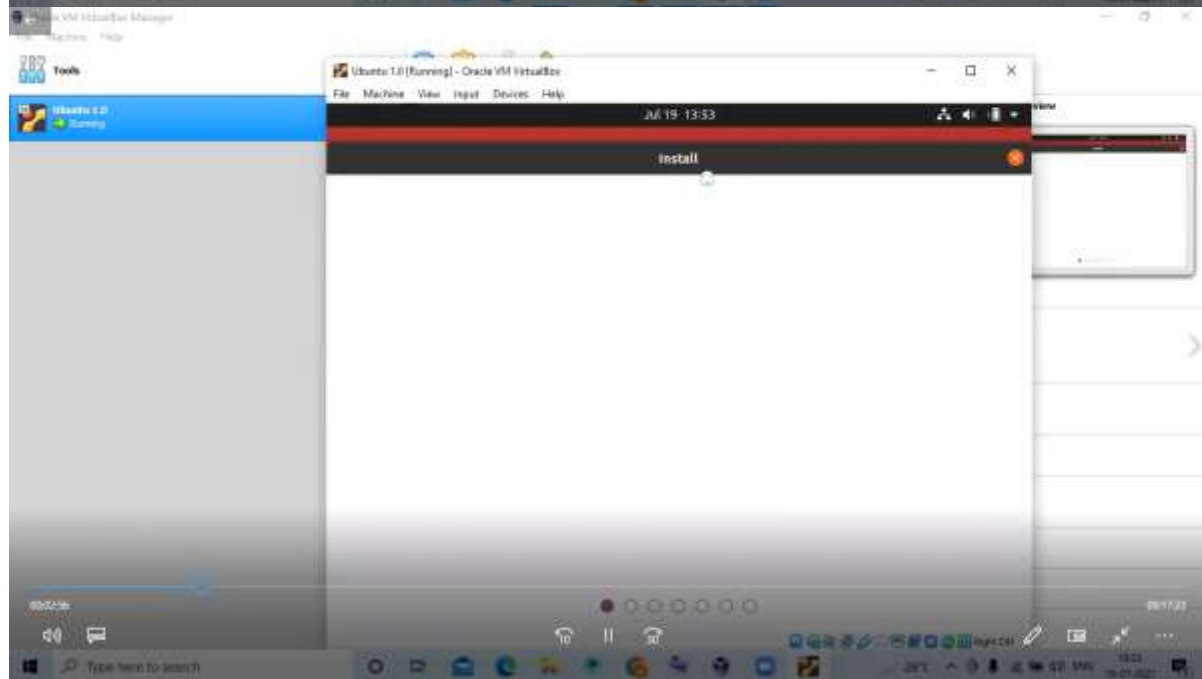
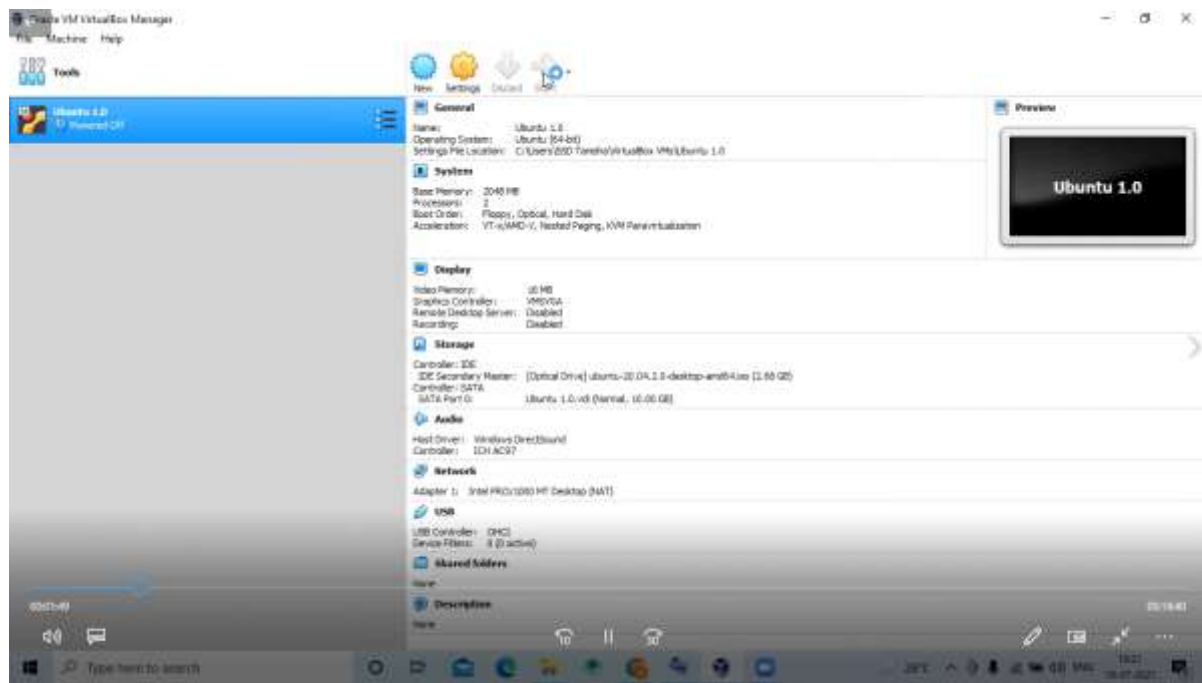


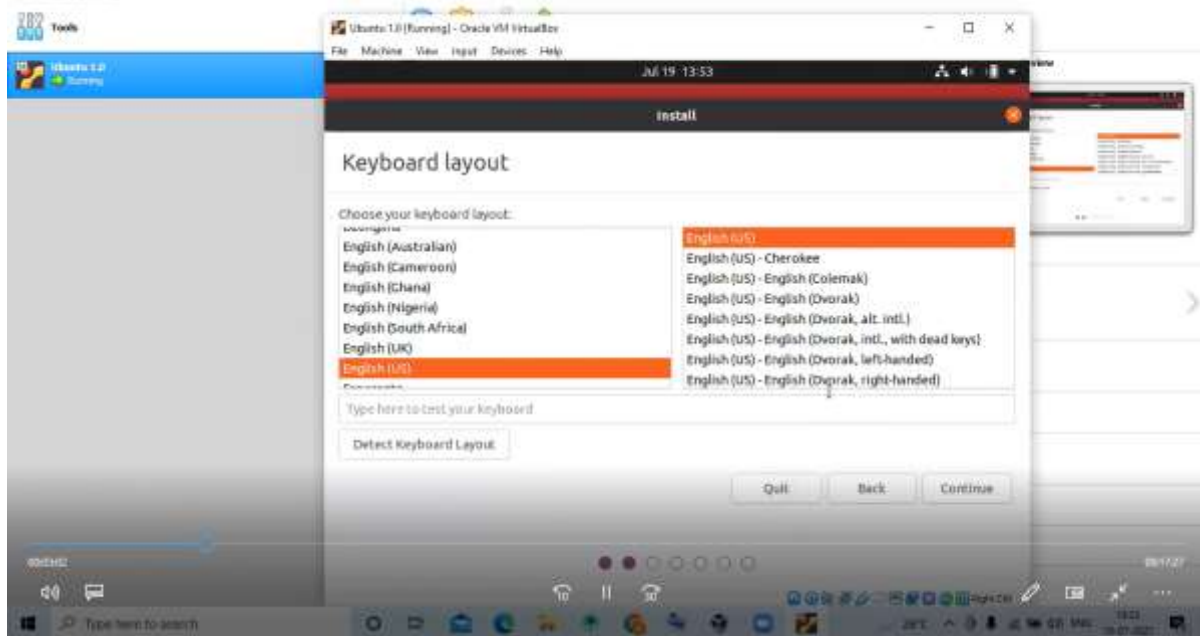
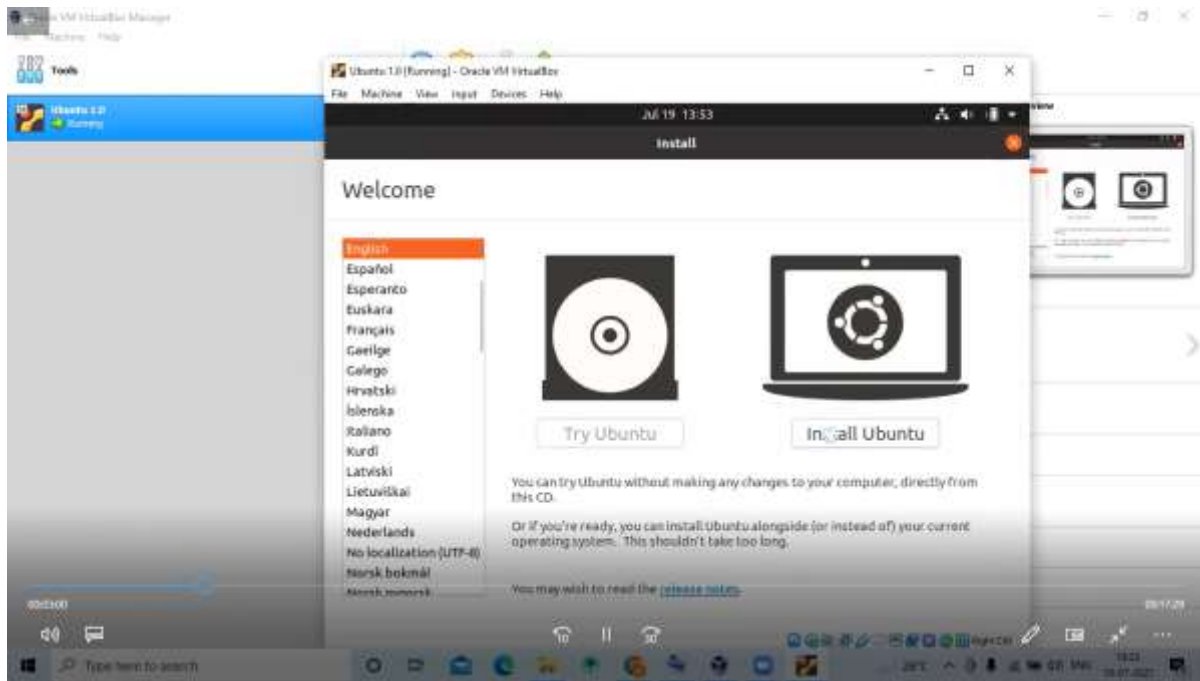
3. Access the "Storage" section and locate the empty disk icon. From there, choose the optical drive option and then select "Choose Virtual Optical Disk File." Now, pick the Ubuntu disk file and confirm by clicking "OK."

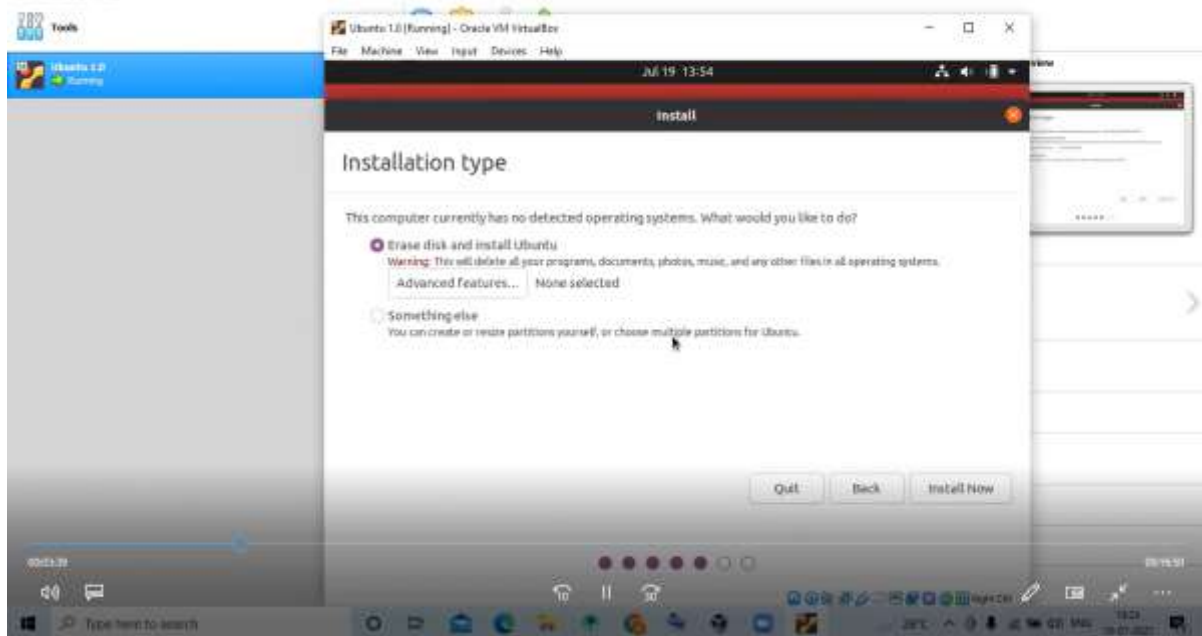
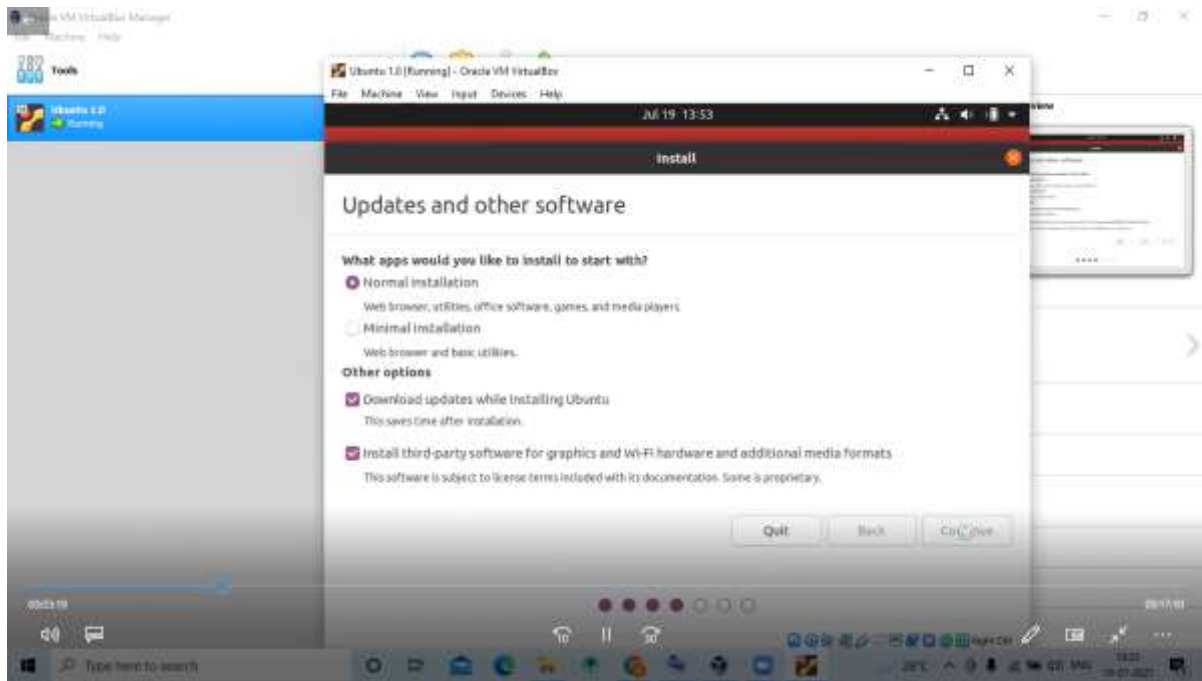


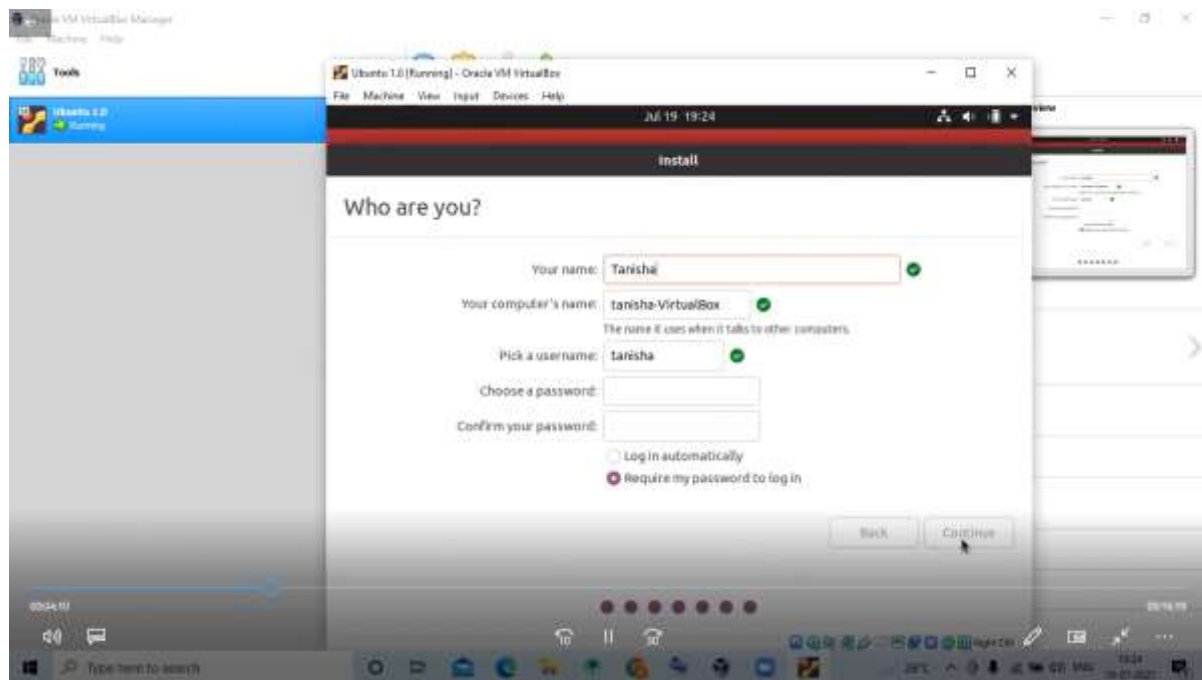


4. Initiate the virtual machine and commence the Ubuntu installation procedure, referencing the accompanying images.

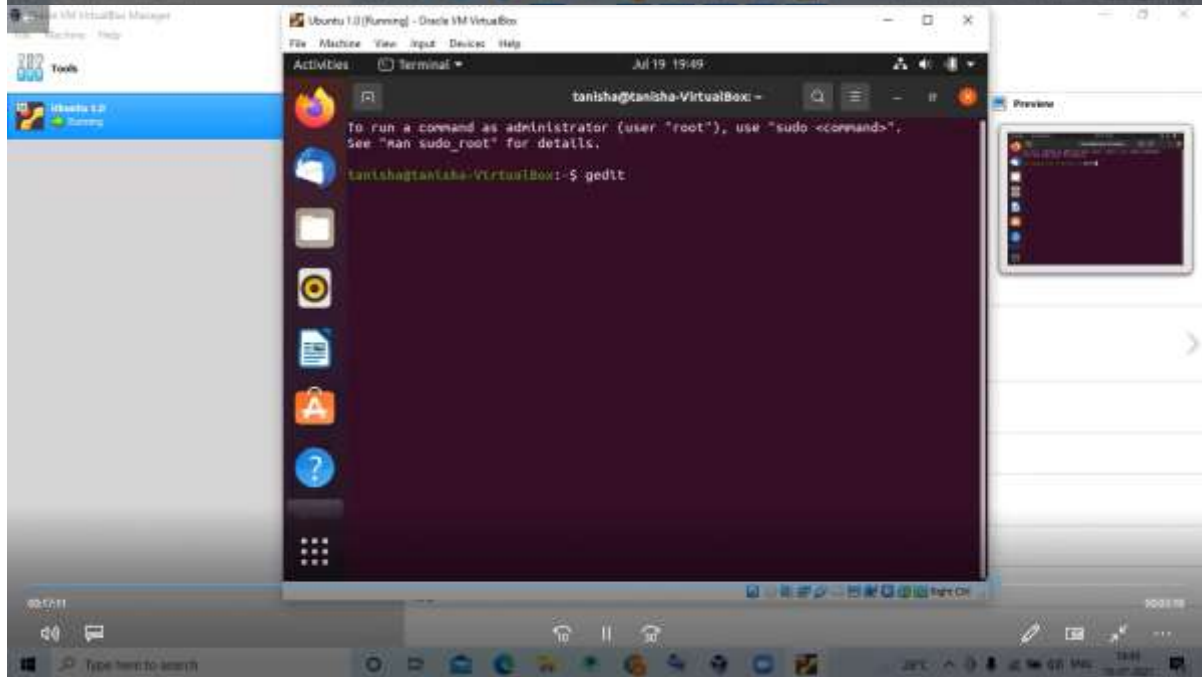
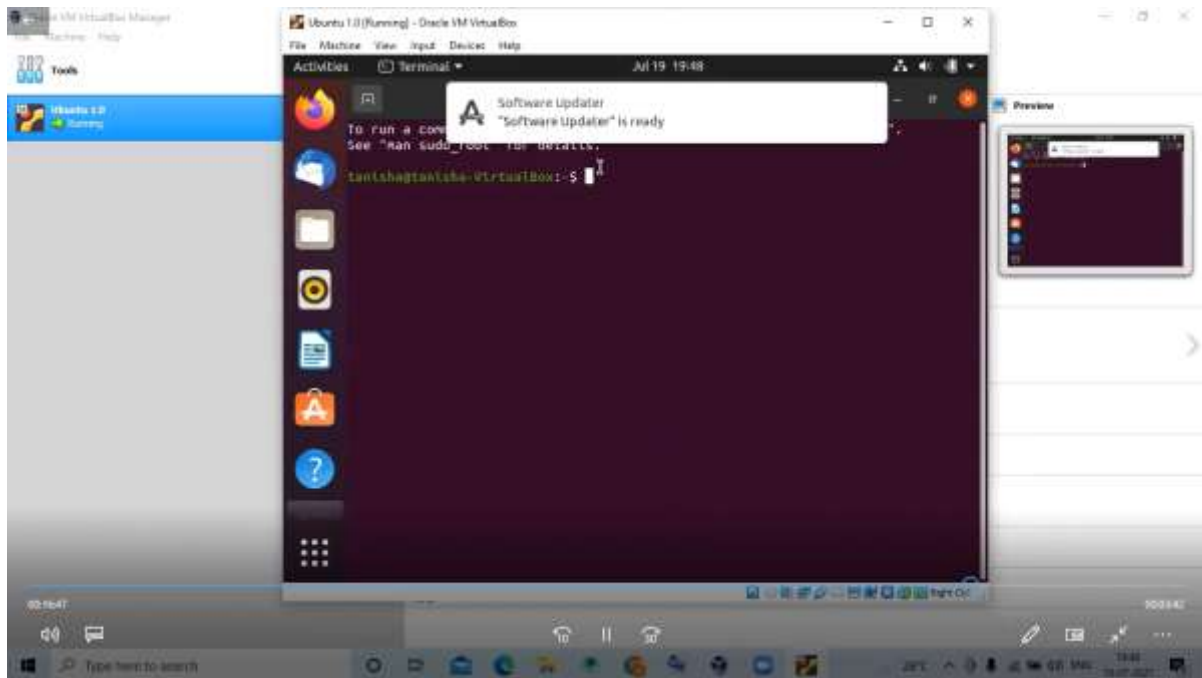


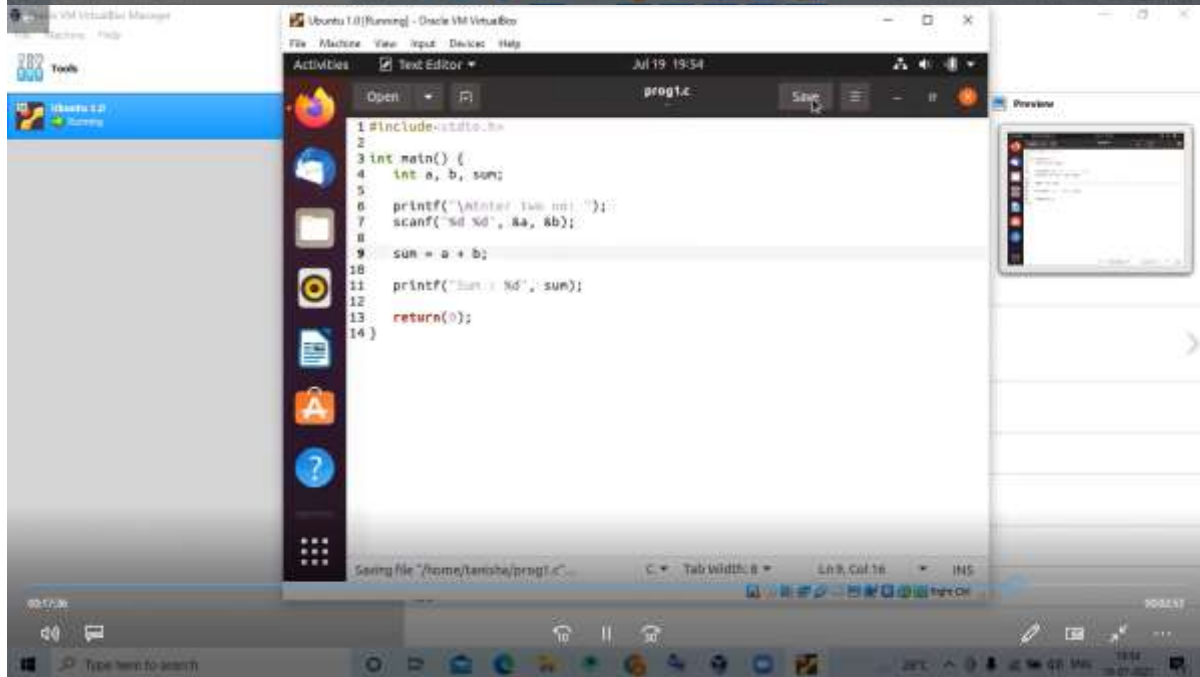
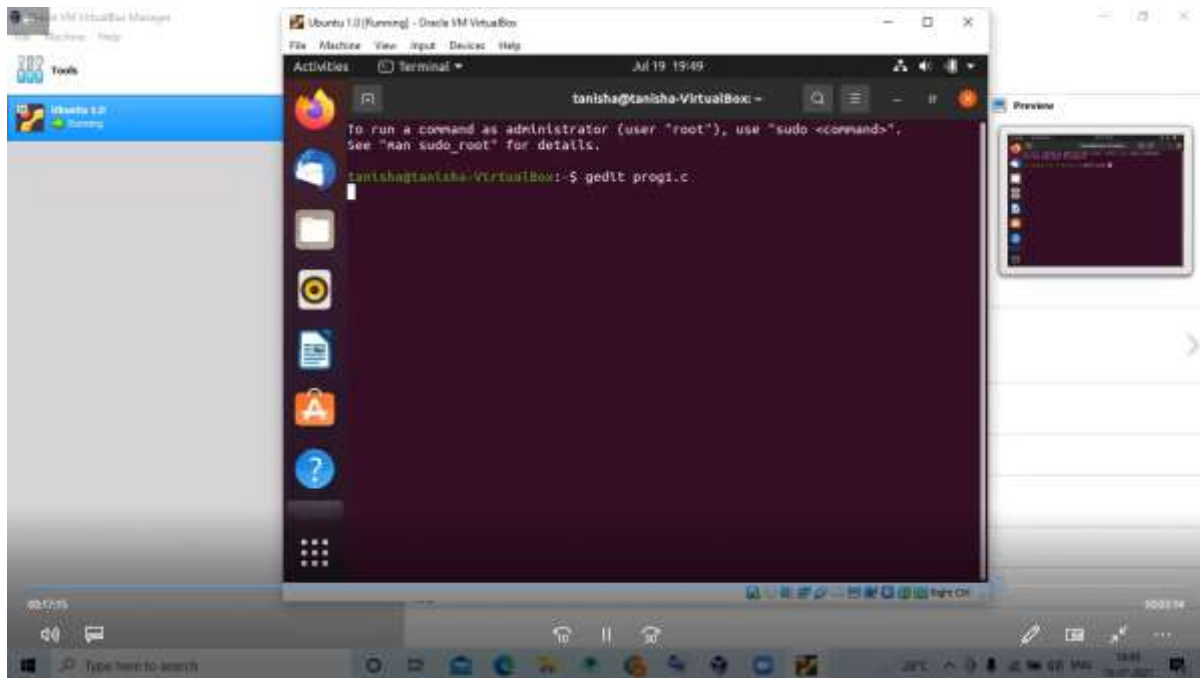


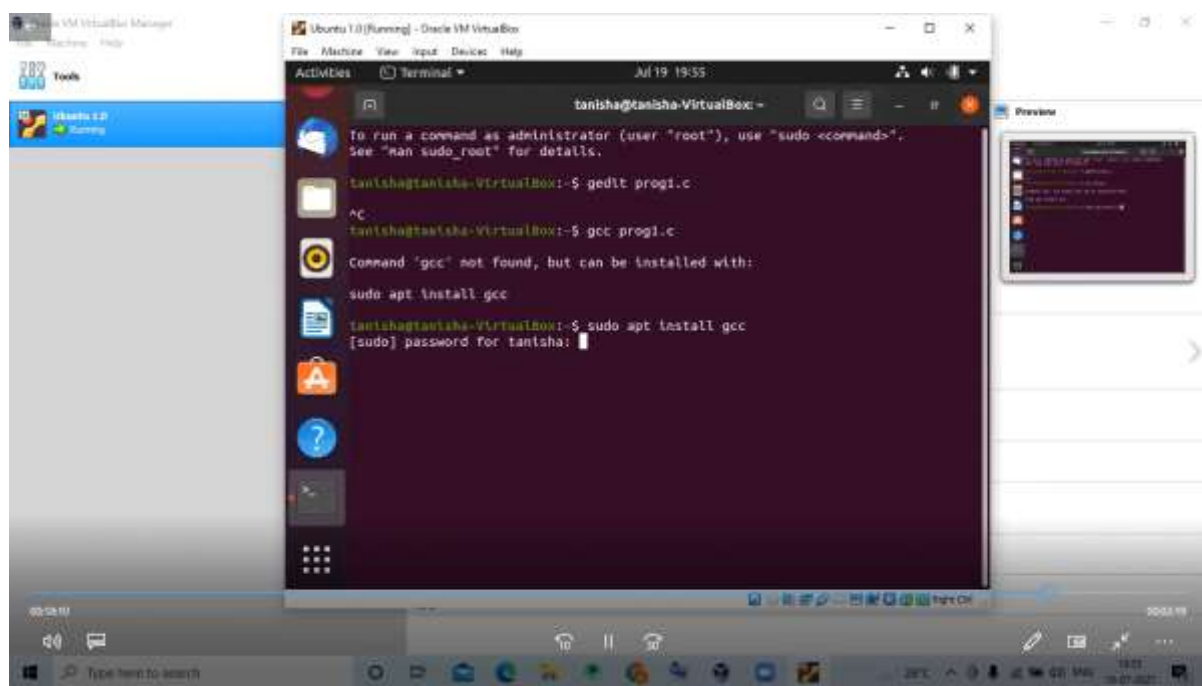
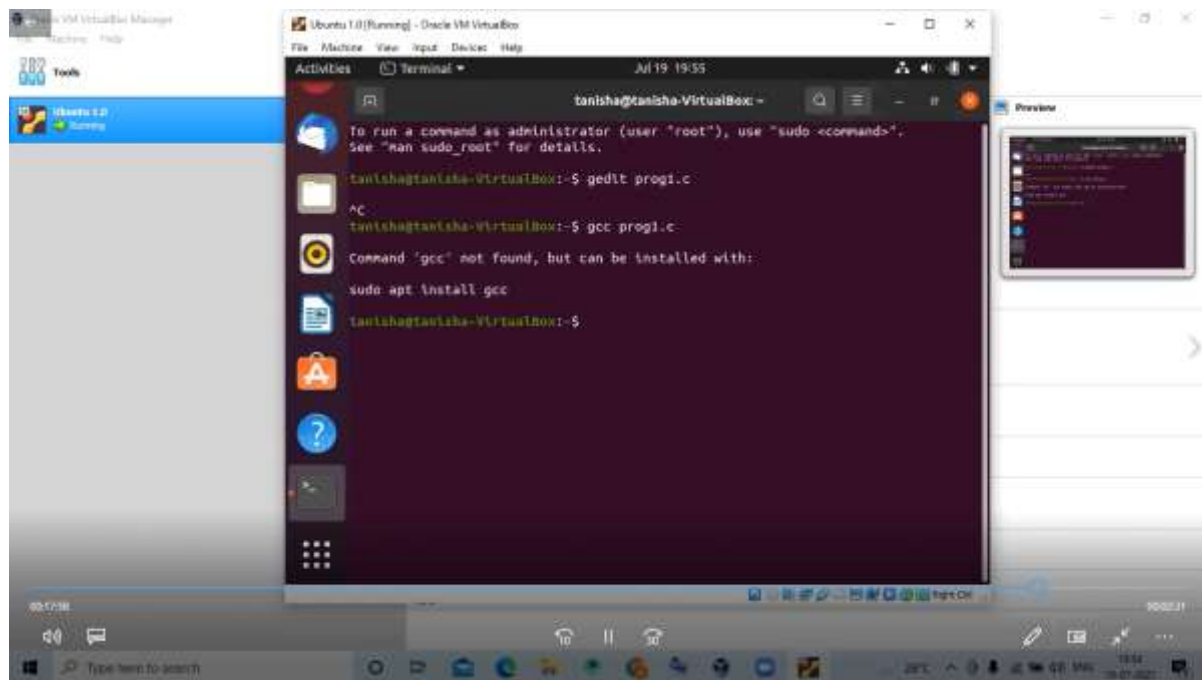




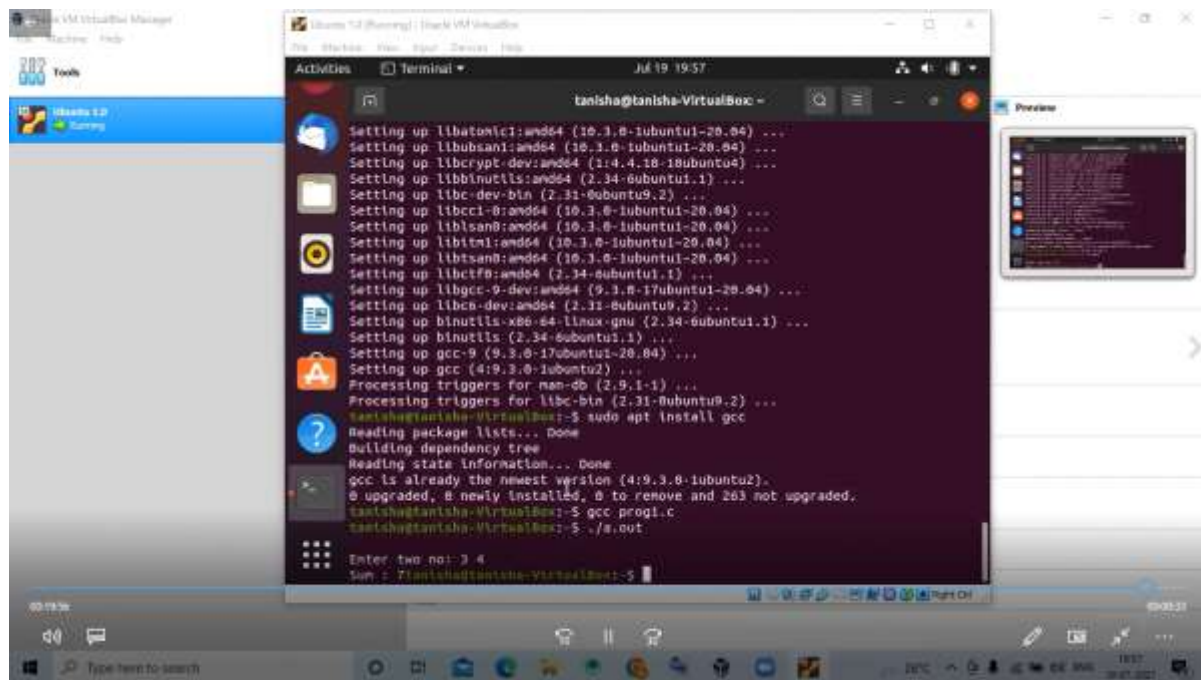
5. Transition to coding. Establish a new file and write your code. Subsequently, install the GCC compiler to facilitate code execution.







6. This results in the output displayed below.



CONCLUSION:

As a result, the process of setting up multiple virtual machines on a single system using Oracle VirtualBox has been comprehensively explored and successfully executed.

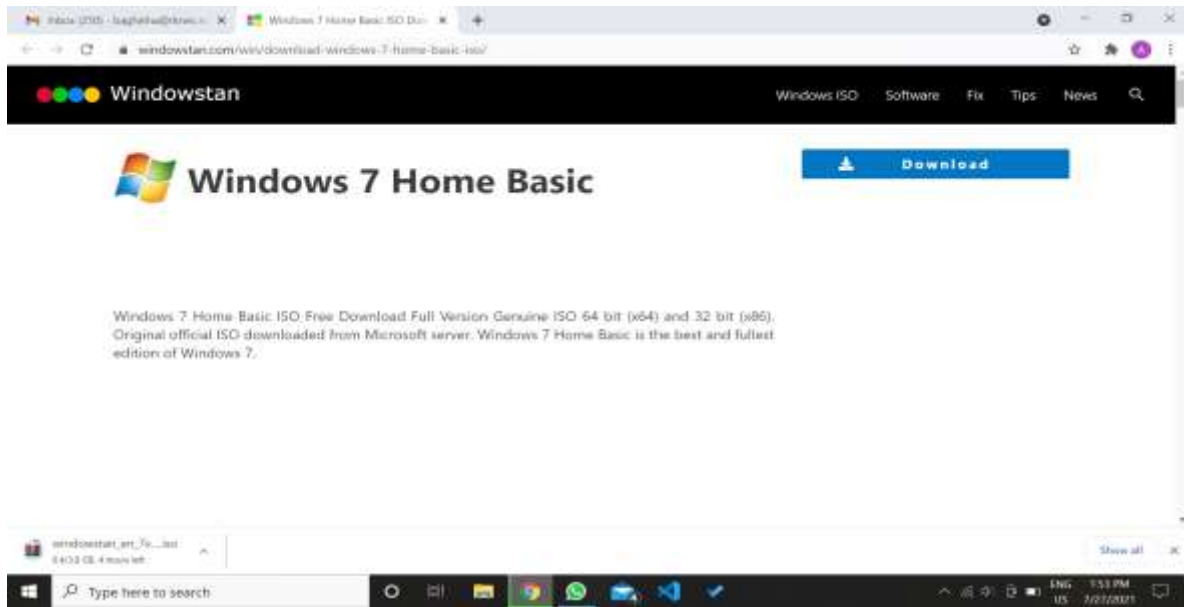
Part-2

Aim: To move the files between virtual machine.

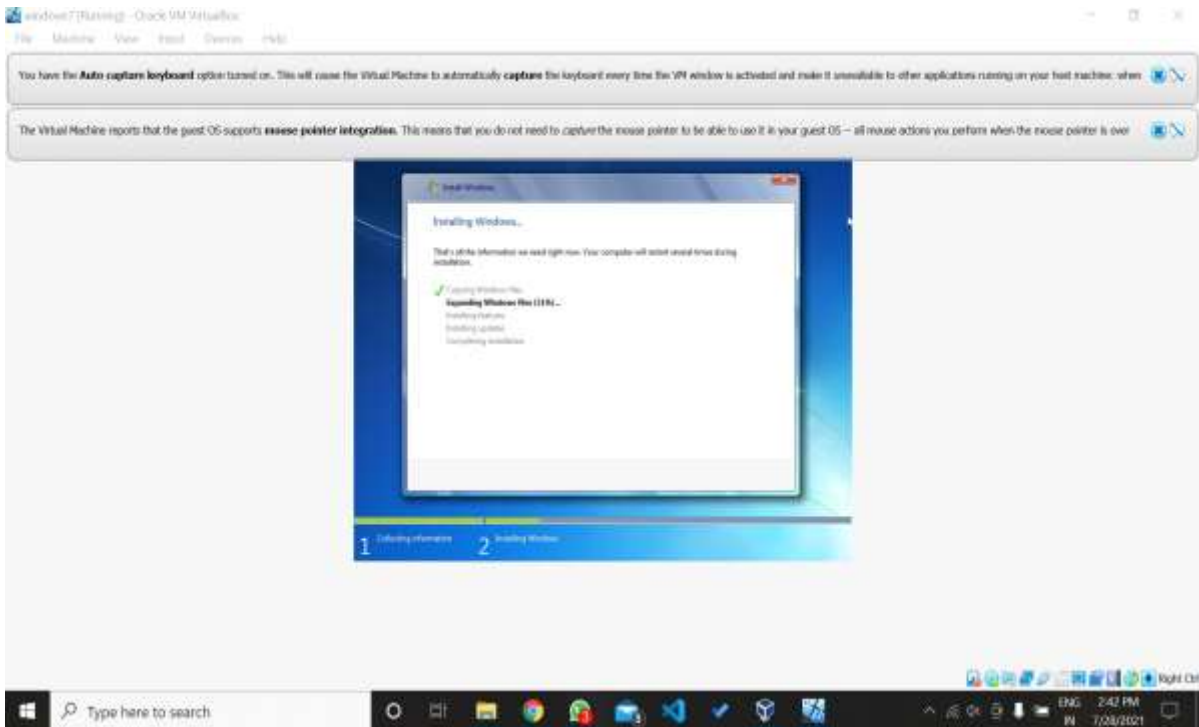
Procedure:

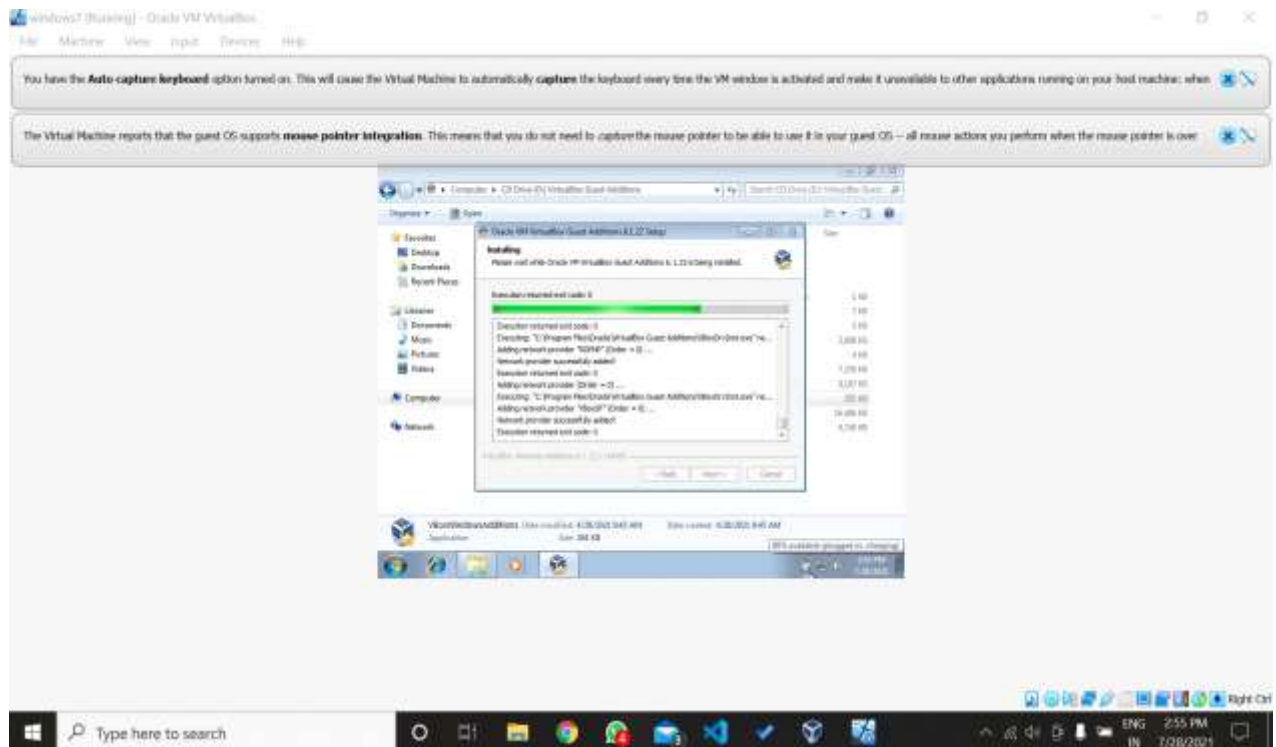
Setting Up Web Hosting Using Apache Server

STEP 1 - INSTALLING WINDOWS ISO FILE

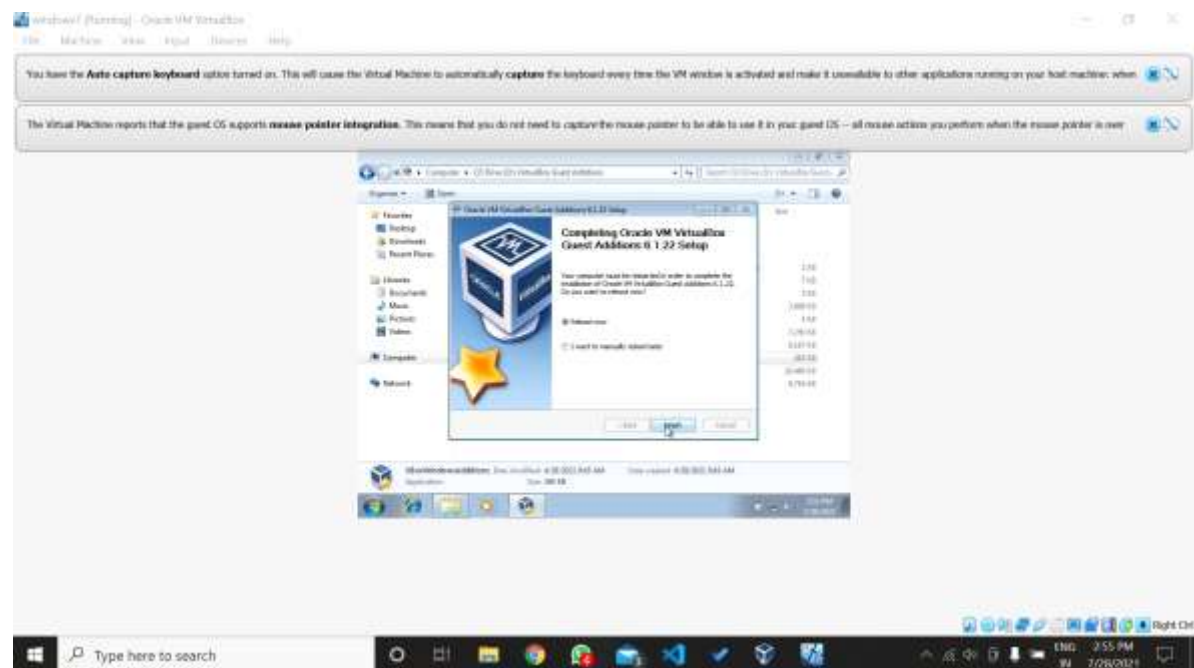


STEP 2 - INSTALLING WINDOWS

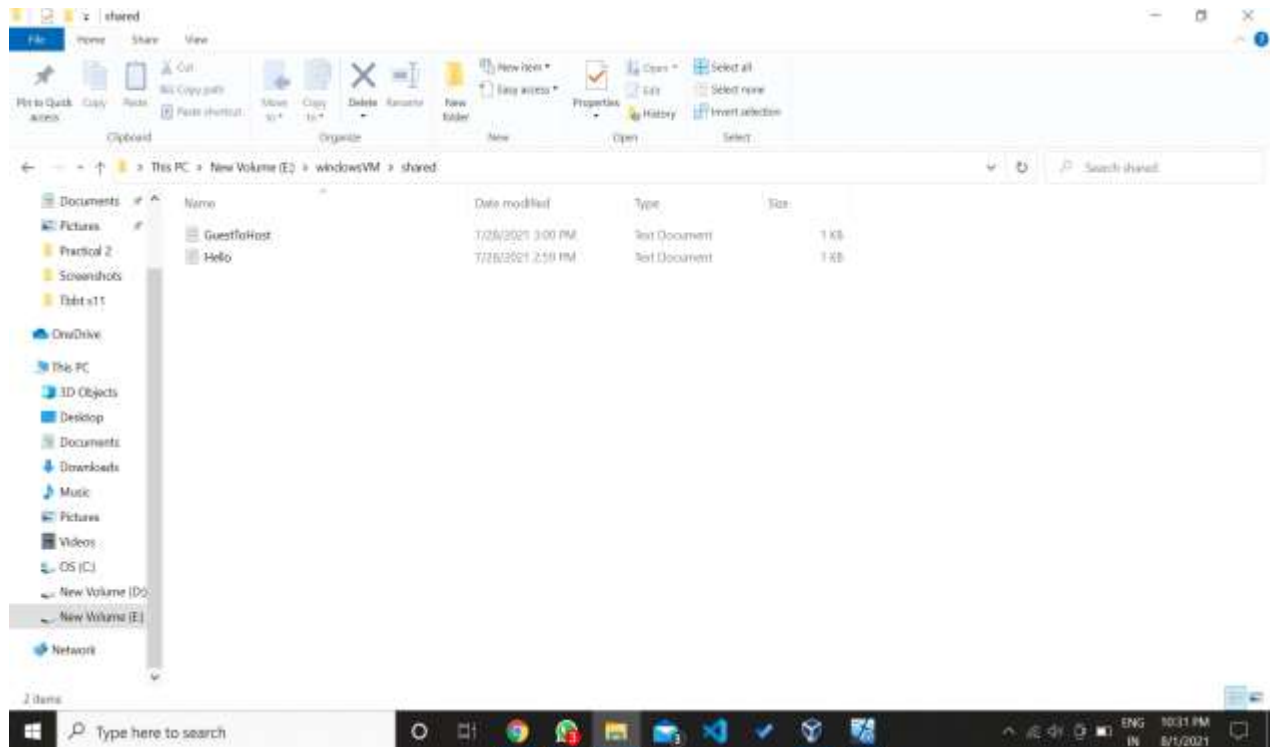




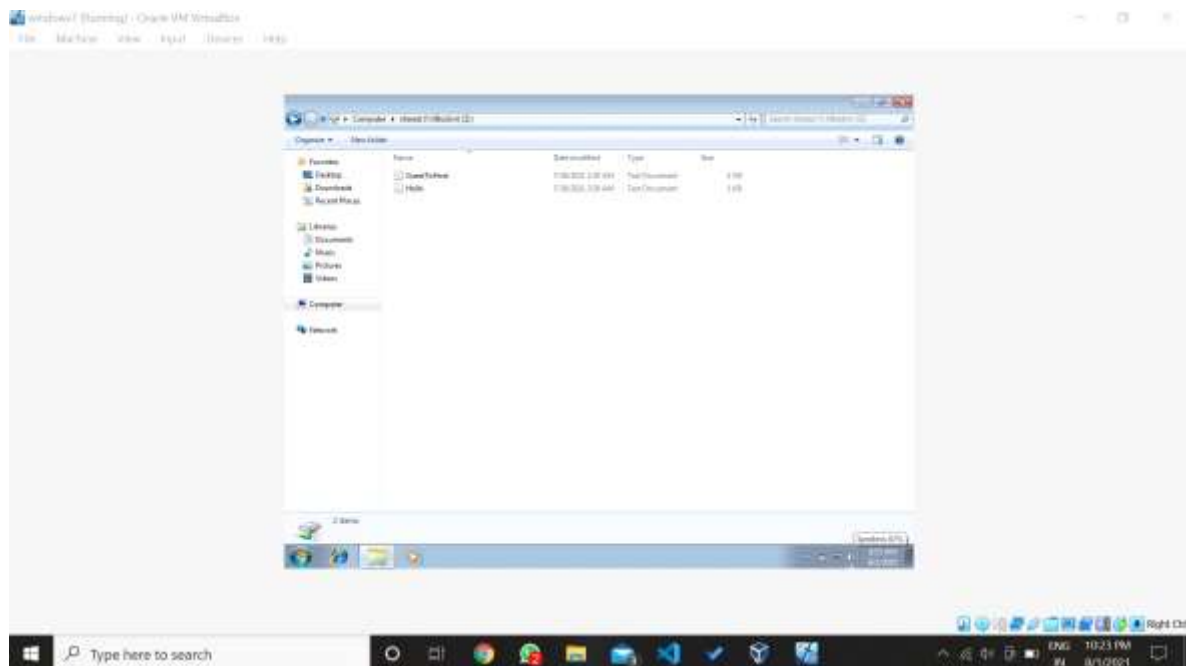
STEP 3 - SETTING UP FILE SHARING FOR GUEST MACHINE



STEP 4 - SHARED FOLDER IN HOST MACHINE

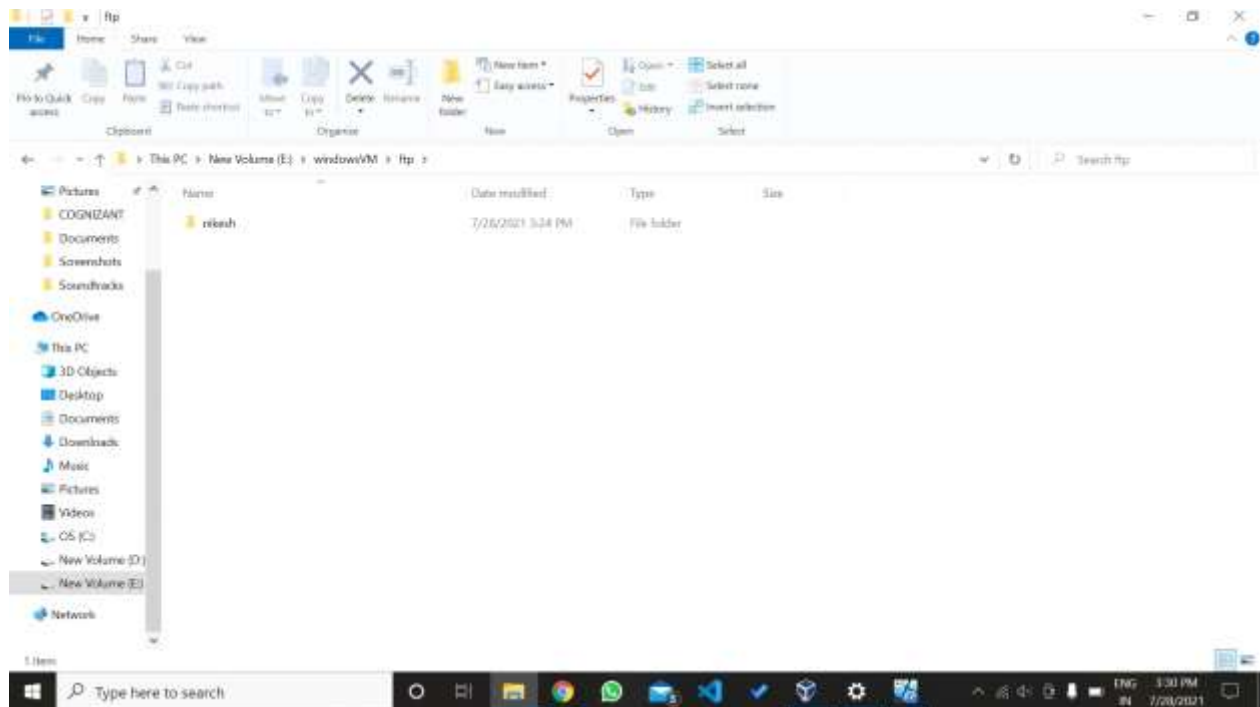


STEP 5 - SHARED FOLDER IN VIRTUAL MACHINE

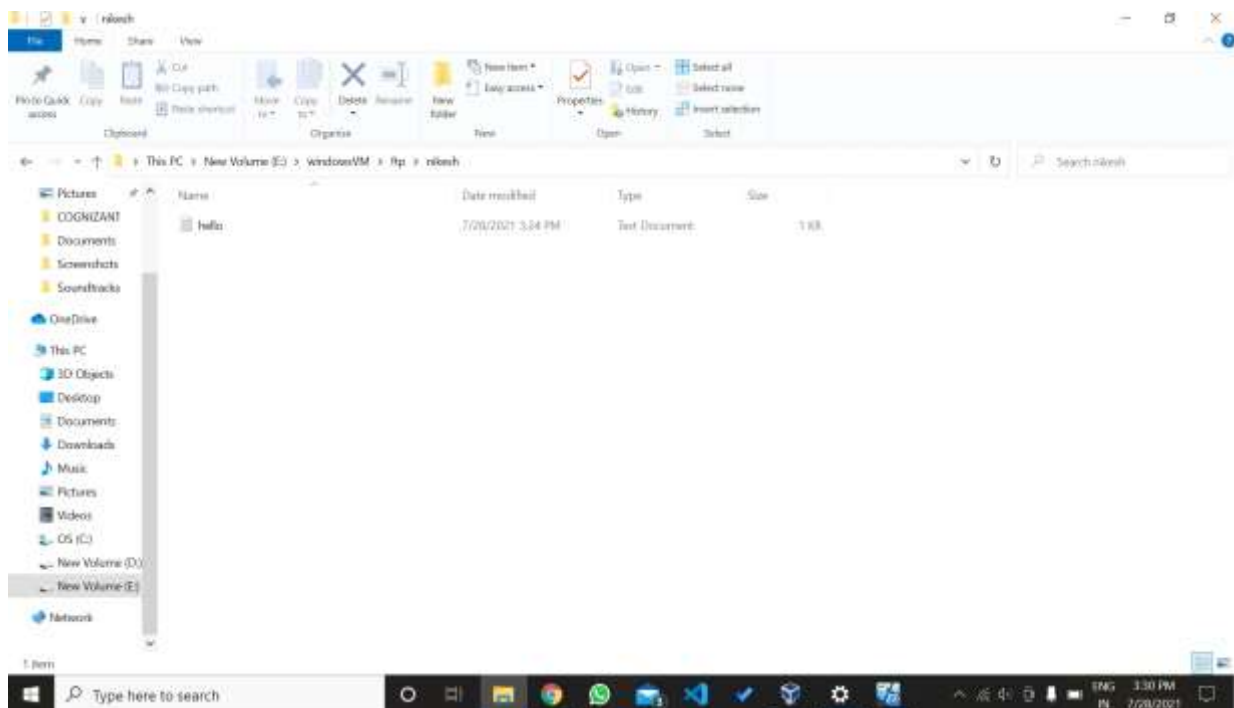


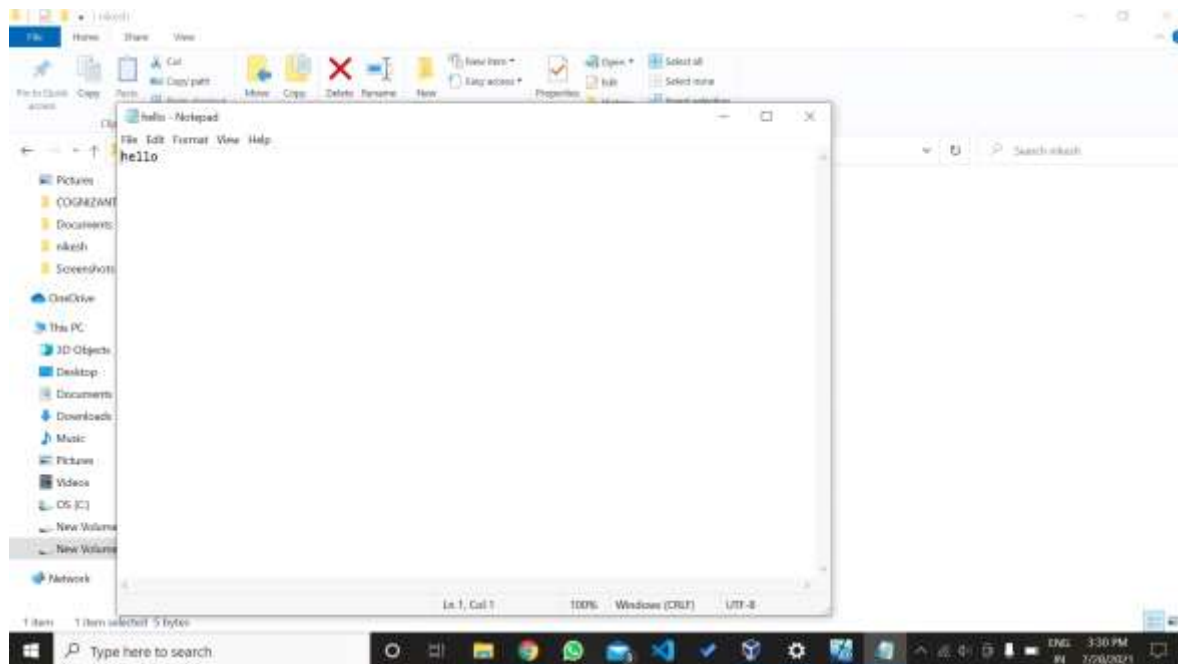
FTP(FILE TRANSFER PROTOCOL)

STEP 1 - CREATING SHARED FOLDER IN FOLDER NAMED AS 'FTP'



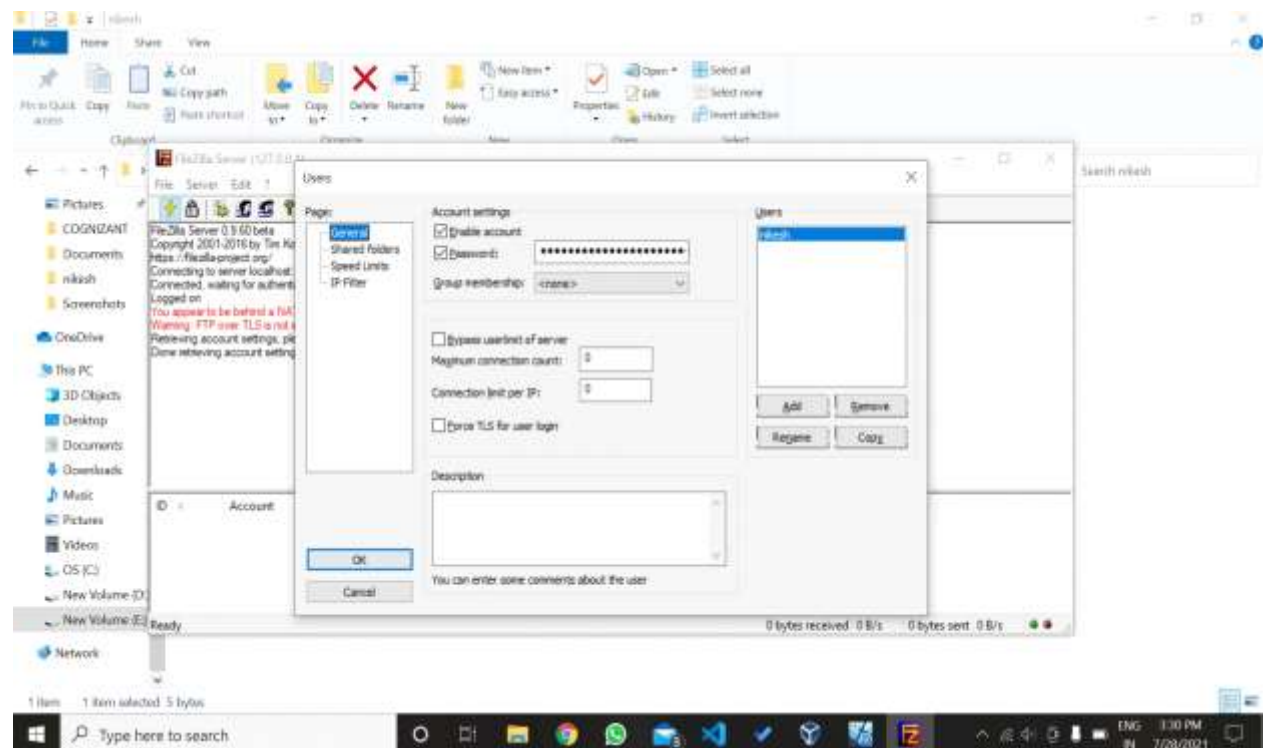
STEP 2 - CREATED A FOLDER NAMED AS fname

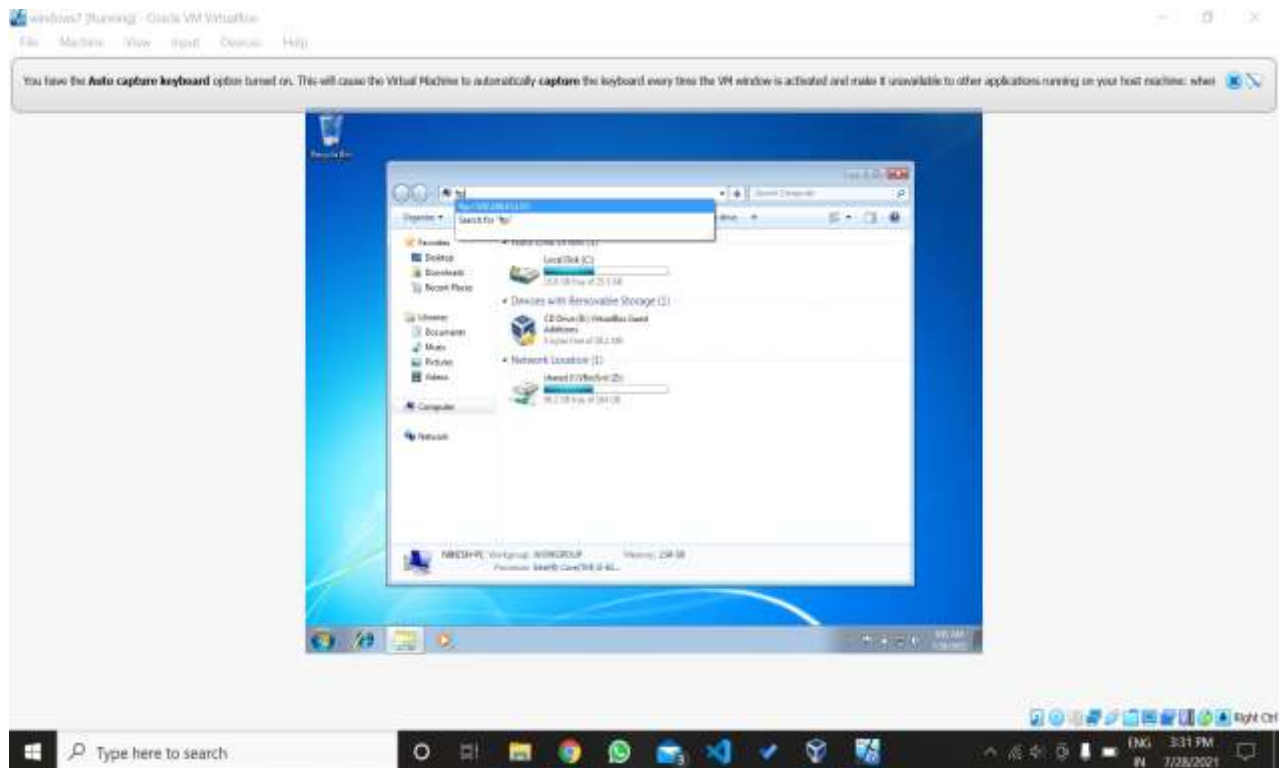




STEP 3 - ADDING TEXT FILE NAMED AS 'HELLO.TXT'

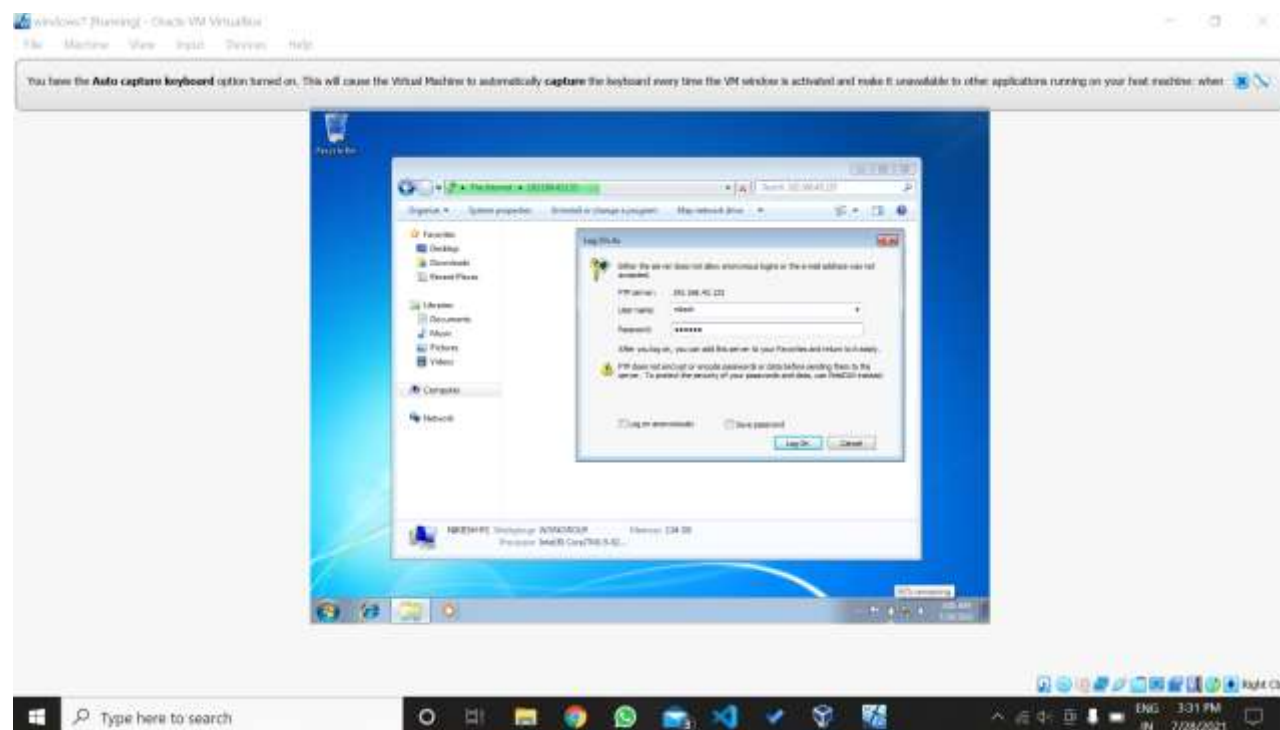
STEP 4 - CREATING FTP SERVER USING FILEZILLA SOFTWARE AND SHARING THE FTP FOLDER

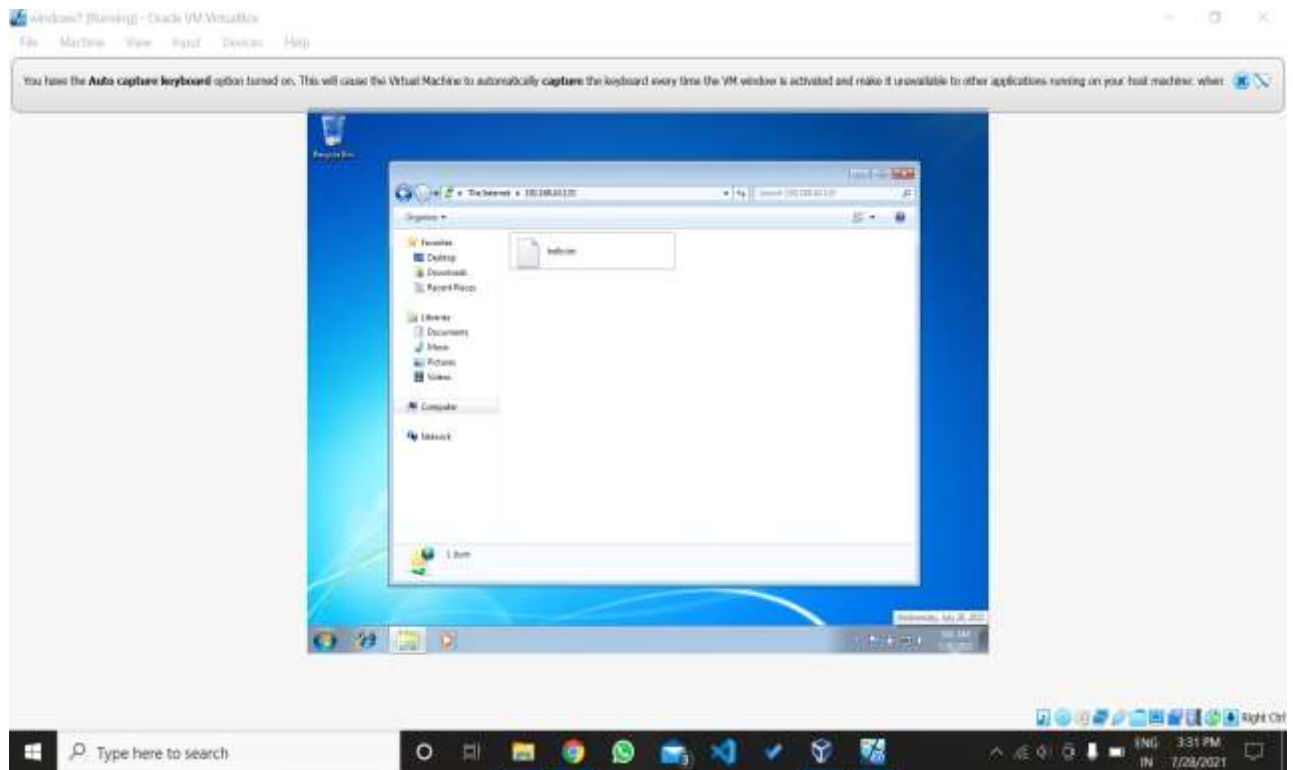




STEP 5 - ADDING THE FTP SERVER IN ADDRESS BAR OF VIRTUAL MACHINE

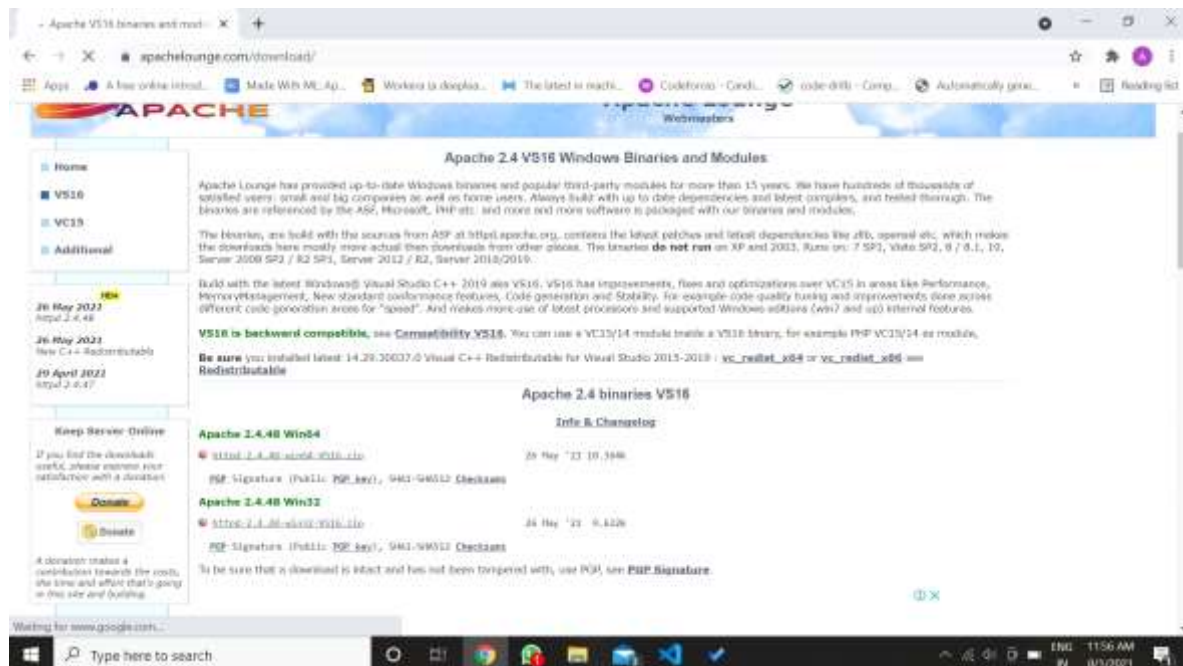
STEP 6 - ADDING USERNAME AND PASSWORD OF FTP SERVER





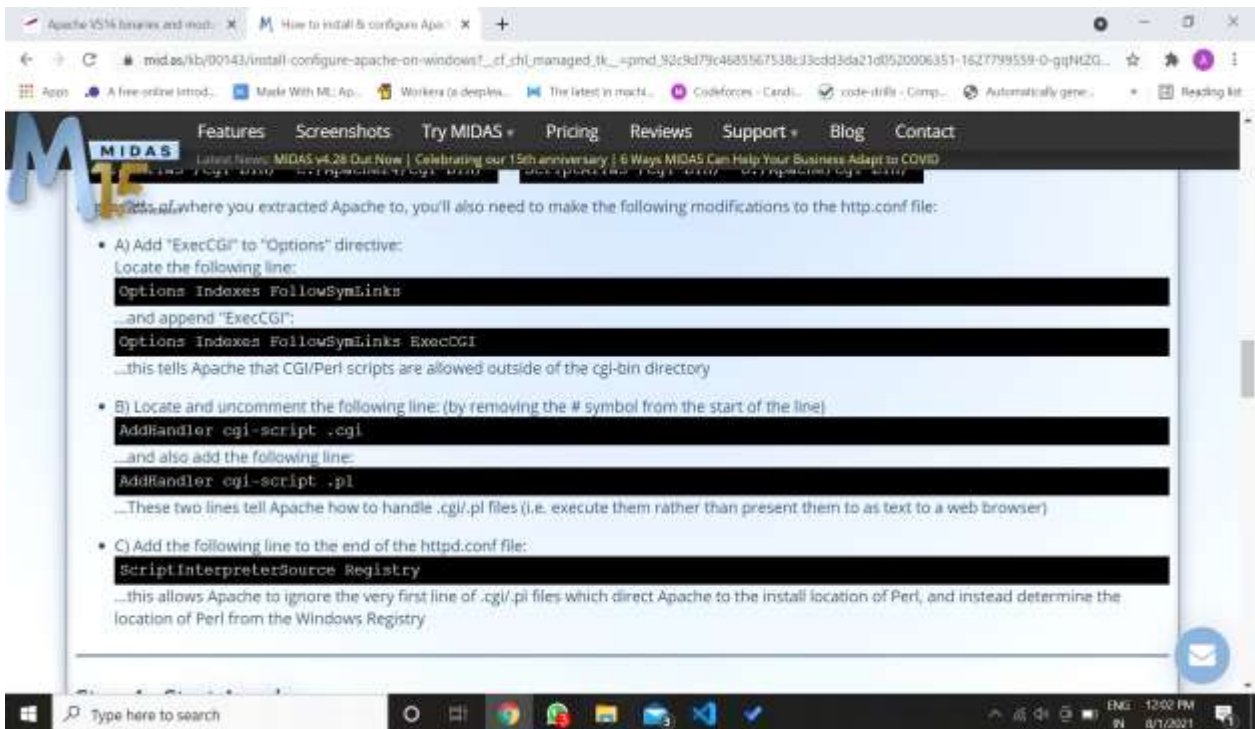
STEP 7 - ACCESSING THE SHARED TEXT FILE

WEB HOSTING USING APACHE SERVER

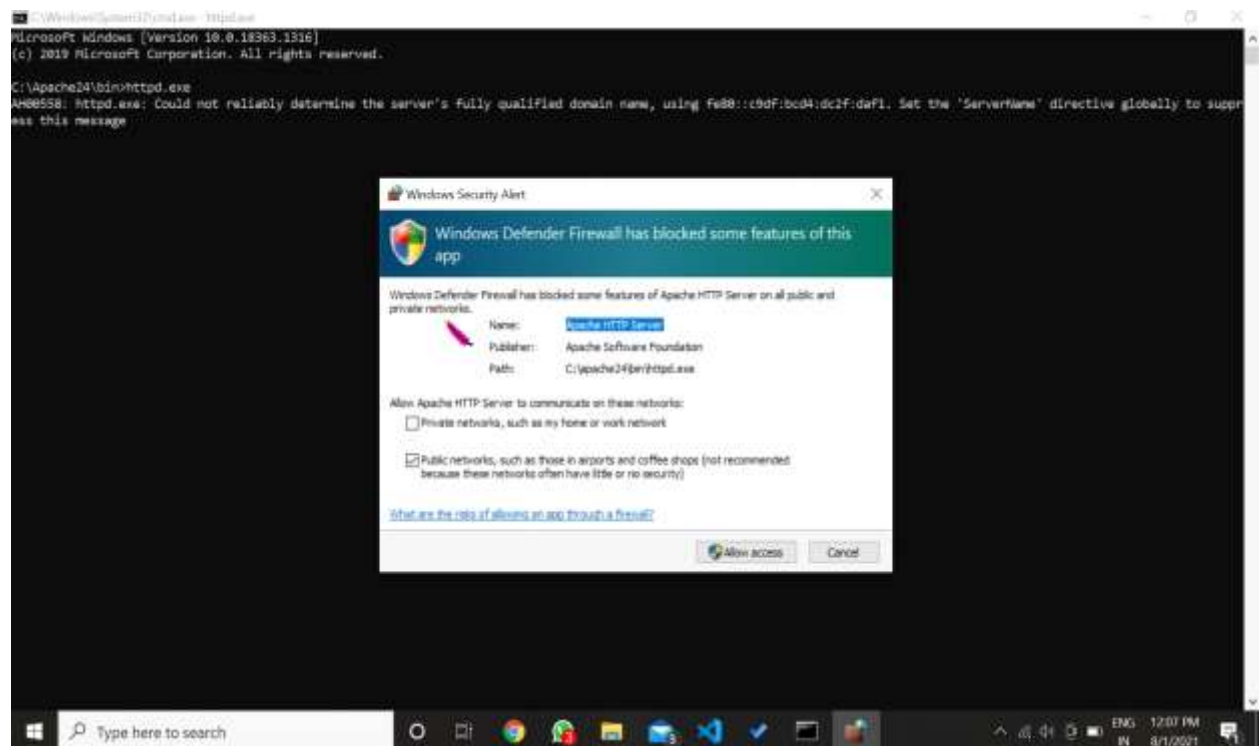


STEP 1 - DOWNLOADING APACHE24

STEP 2 - MAKING A FOLDER NAMED AS APACHE24 IN C DRIVE AND MAKING THE GIVEN CHANGES

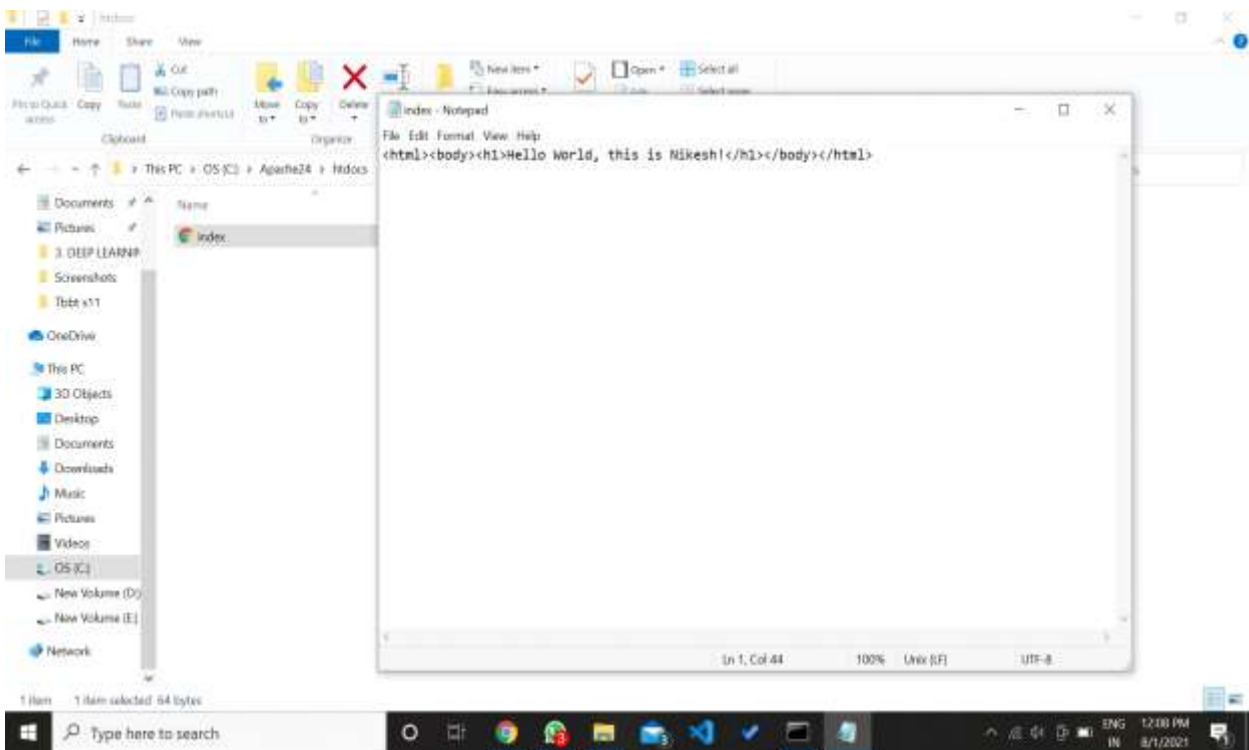


STEP 3 - STARTING THE APACHE HTTP SERVER USING COMMAND

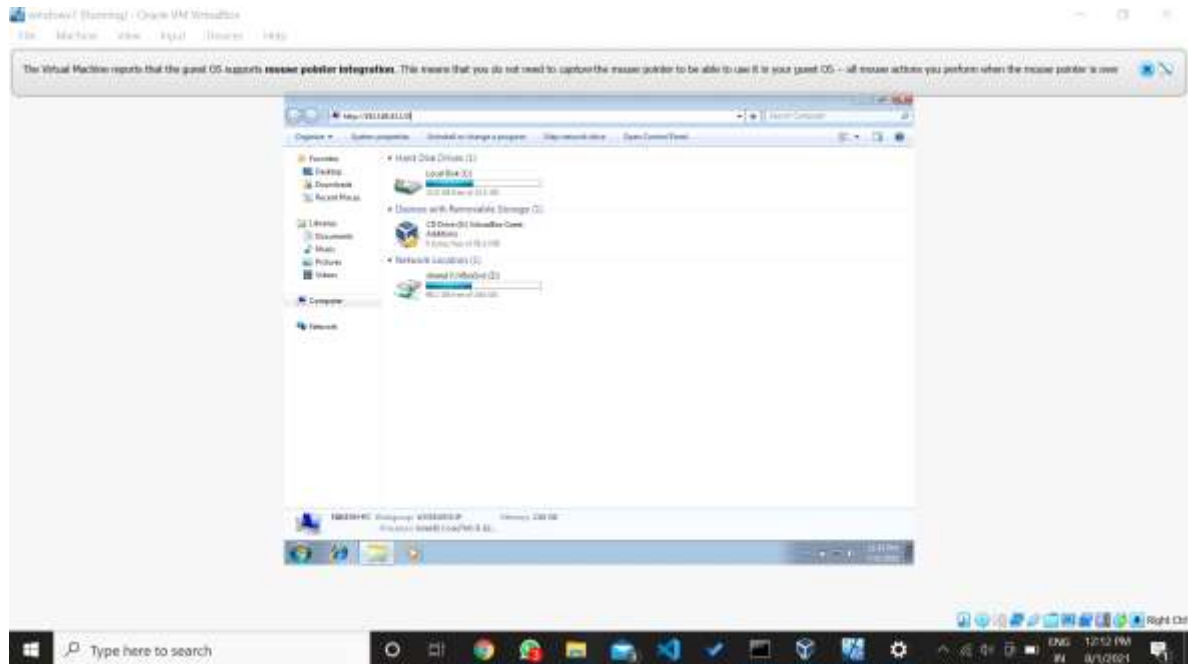


'httpd.exe'

STEP 4 - CHANGING THE INDEX.HTML FILE htdocs folder



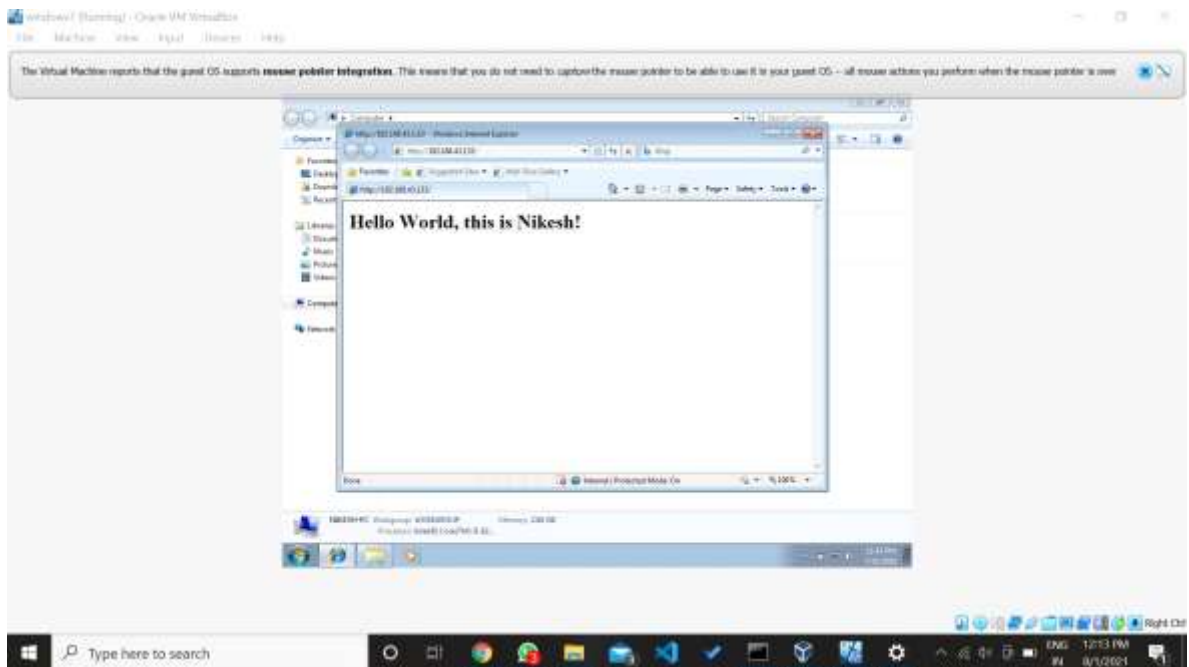
STEP 5 - OPENING THE LOCALHOST IN BROWSER

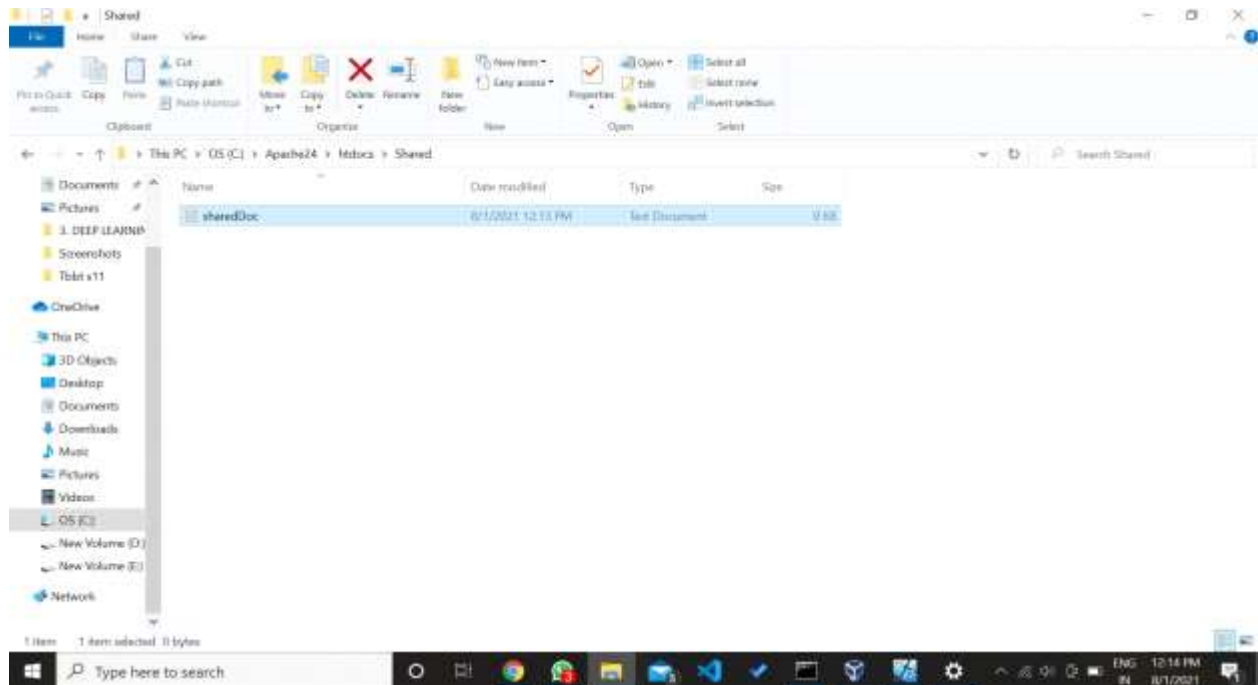


STEP 6 - OPENING THE HTTP SERVER IN VIRTUAL MACHINE

STEP 7 - THE RESULT AFTER OPENING THE SERVER

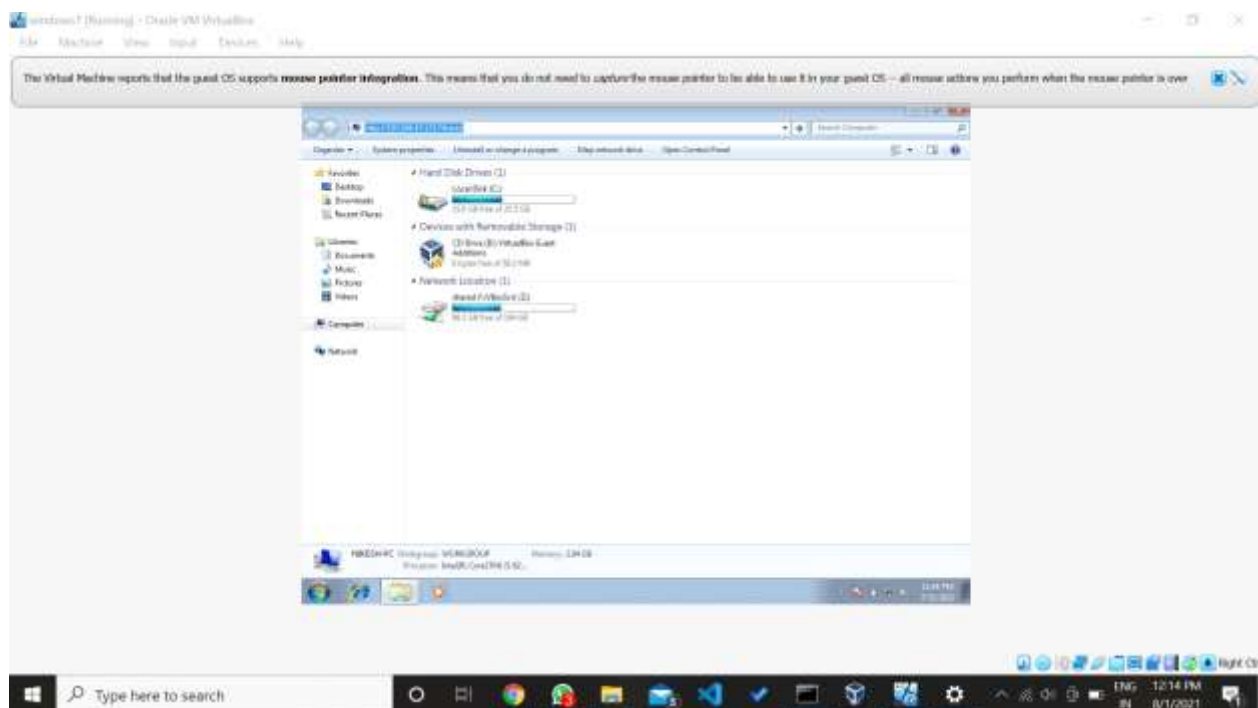
(This shows the result that a server is created in VM by opening the htmlfile of host machine)



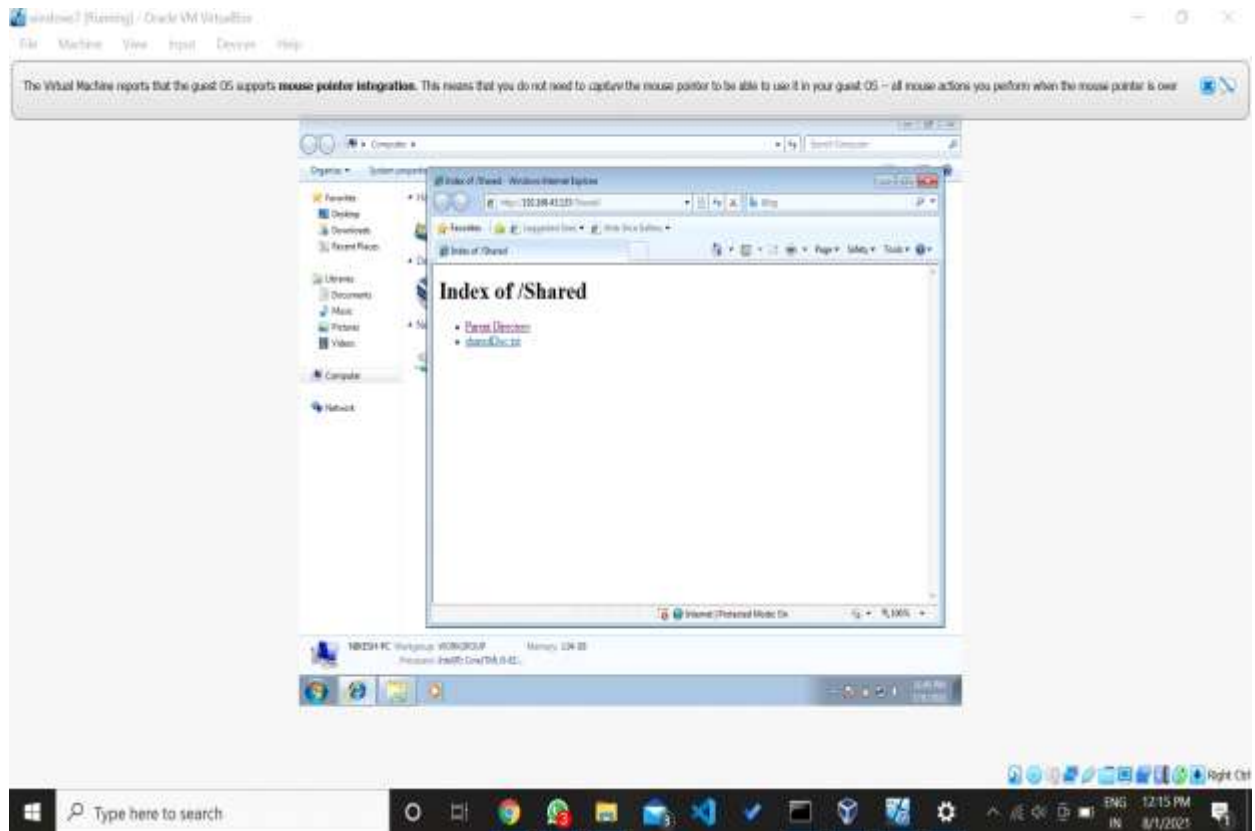


STEP 8 - CREATING A SHARED FOLDER AND ADDING A TEXT FILE IN IT

STEP 9 - ADDING THE ADDRESS OF SHARED FOLDER IN THE ADDRESSBAR OF VM



(Address is - '<http://192.168.43.133/Shared>'))



STEP 10 - RESULT!

We can see the sharedDoc.txt file in Shared path of http address