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Ex: No: 1

Install VirtualBox / VMware Workstation

14/8/21

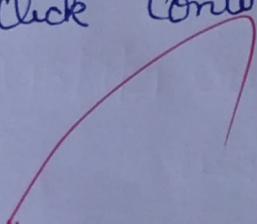
Aim:

Find Procedure to Install virtualBox with different flavours of Linux or windows OS on top of Windows 7 or 8.

Procedure:

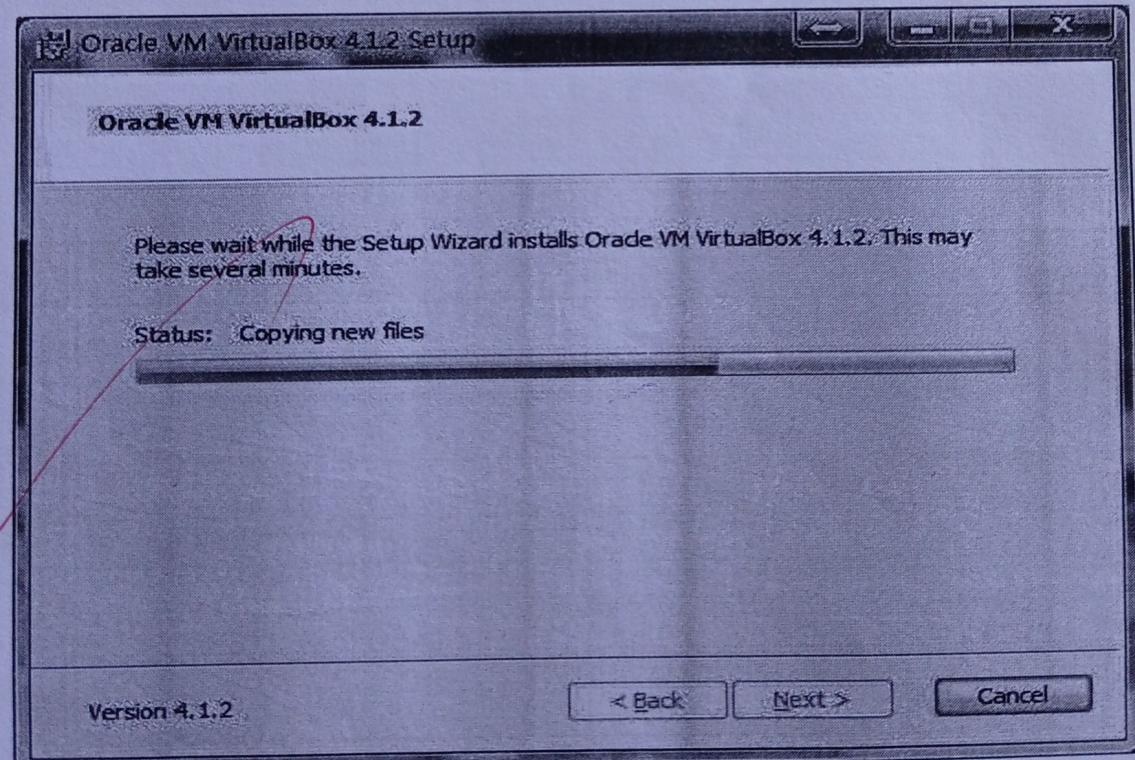
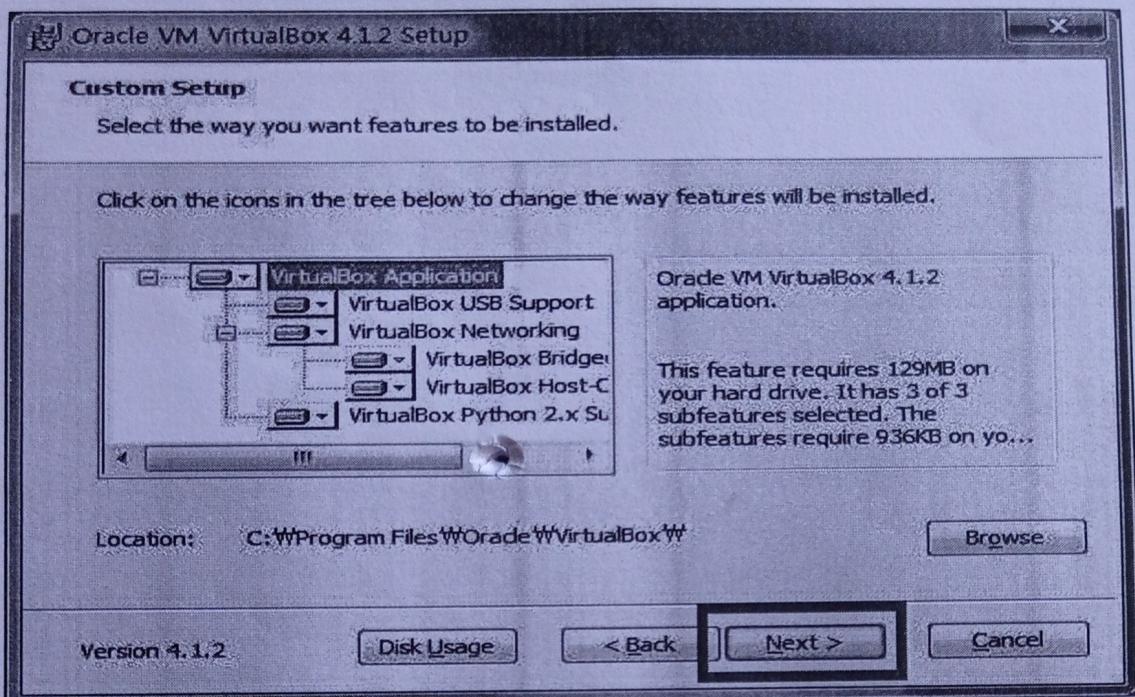
Install VirtualBox:

- 1) visit <http://www.virtualbox.org/wiki/downloads>.
- 2) Download VirtualBox Platform Packager for your OS.
- 3) Open the Installation Package by double clicking.
- 4) click Continue and finish Installing virtualBox.



Ex .No: 1.a

Install Virtual Box on top of Windows



Result: ✓ 19/21

The virtual box / VMware work
station is installed successfully.

Ex: No: 1b)

Install VM ware Workstation with different flavours of Linux or window OS on top of win 7/8.

1/9/21

Aim:

Find Procedure to install VM ware Workstation with different flavours of Linux or windows OS on top of win 7/8.

Procedure:

Download Linux:

- 1) Visit the Page <http://www.ubuntu.com/download/>
- 2) choose the Latest version of Ubuntu and 32-bit and click "Start Download".

Install Linux using Virtual Box:

- 1) Run virtual Box by double clicking the icon.
- 2) Run "New" button on top left corner.
- 3) click "Continue" on Pop-up - window.
- 4) Type VM name, Select "Linux" for OS & choose "Ubuntu" for version.
- 5) choose the amount of memory to allocate (512 MB to 1024 MB).

- 6) click Continue or Next
- 7) choose create a new hard disk
- 8) click Continue or Next
- 9) choose VDI
- 10) Click Continue or Next

II. choose "Dynamically Allocated" click continue.

This way, the size of your hard disk will grow as you use.

- 11) click the folder icon and choose ubuntu file downloaded.
- 12) Select the size of virtual disk.
- 13) click create.
- 14) Choose ubuntu from Left column and click Start.
- 15) click continue on Pop-up window.
- 16) click Install Ubuntu
- 17) check "Download updates" and click Forward.
- 18) click "Install Now" and wait.
- 19) When finished, click Restart and Press Enter.

Ex .No: 1.b Install Different Flavours of Linux OS

Download Windows Installer Alternative downloads CDs Upgrade 下载 Ubuntu

1

Download Ubuntu

Click the big orange button to download the latest version of Ubuntu. You will need to create a CD or USB stick to install Ubuntu.

Our long-term support (LTS) releases are supported for three years on the desktop. Perfect for organisations that need more stability for larger deployments.

Additional options

Take a look at a full list of our previous versions and alternative downloads >

Download options

Ubuntu 11.04 - Latest version

32-bit (recommended)

Download started

Ubuntu 11.04
32-bit

Direct url for this download

If you're running Windows

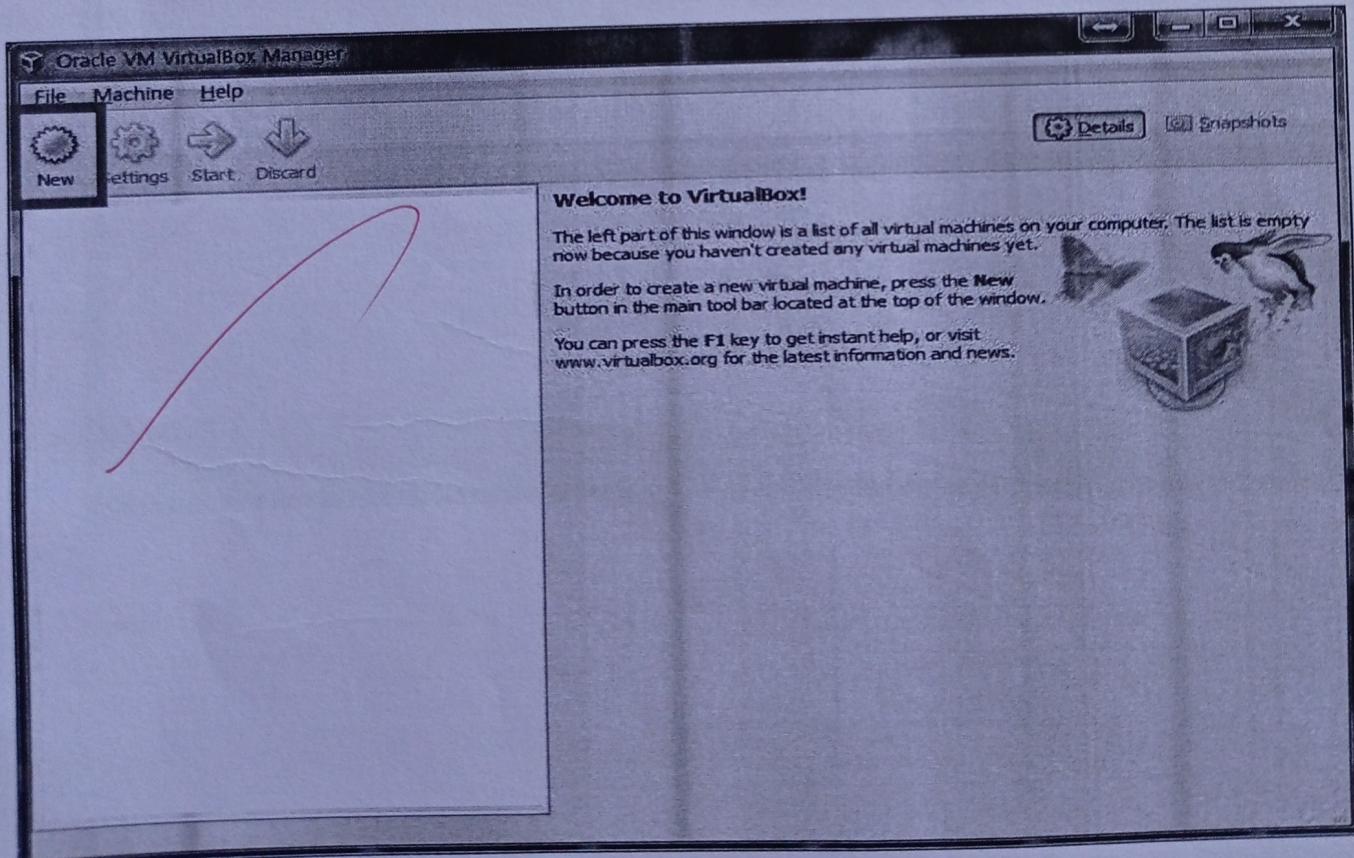
You can use Ubuntu Windows Installer to run Ubuntu alongside your current system.

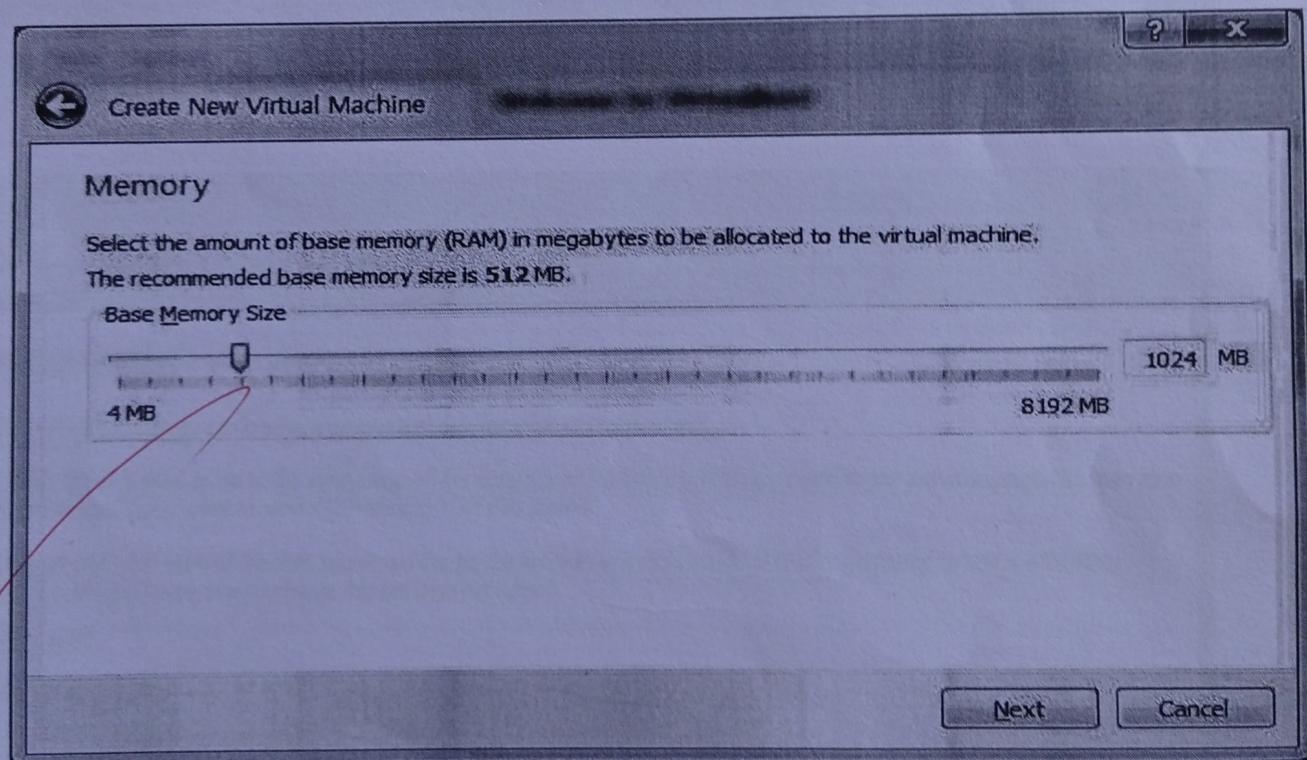
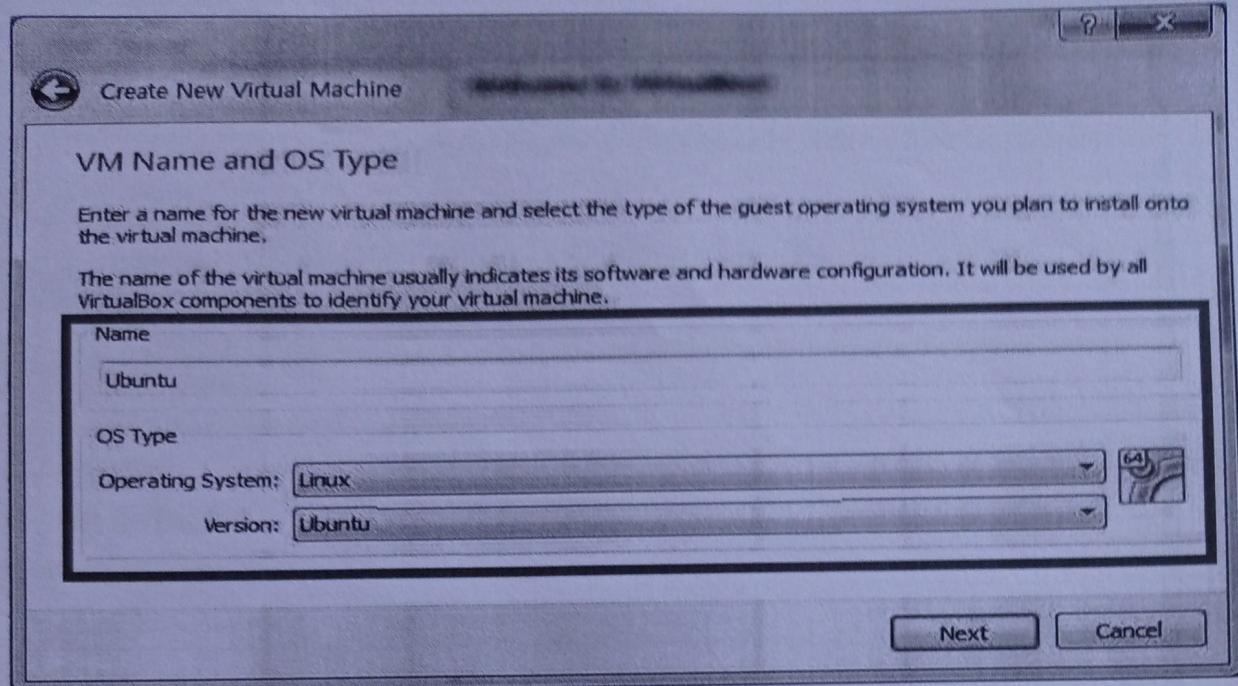
[Ubuntu Windows Installer >](#)

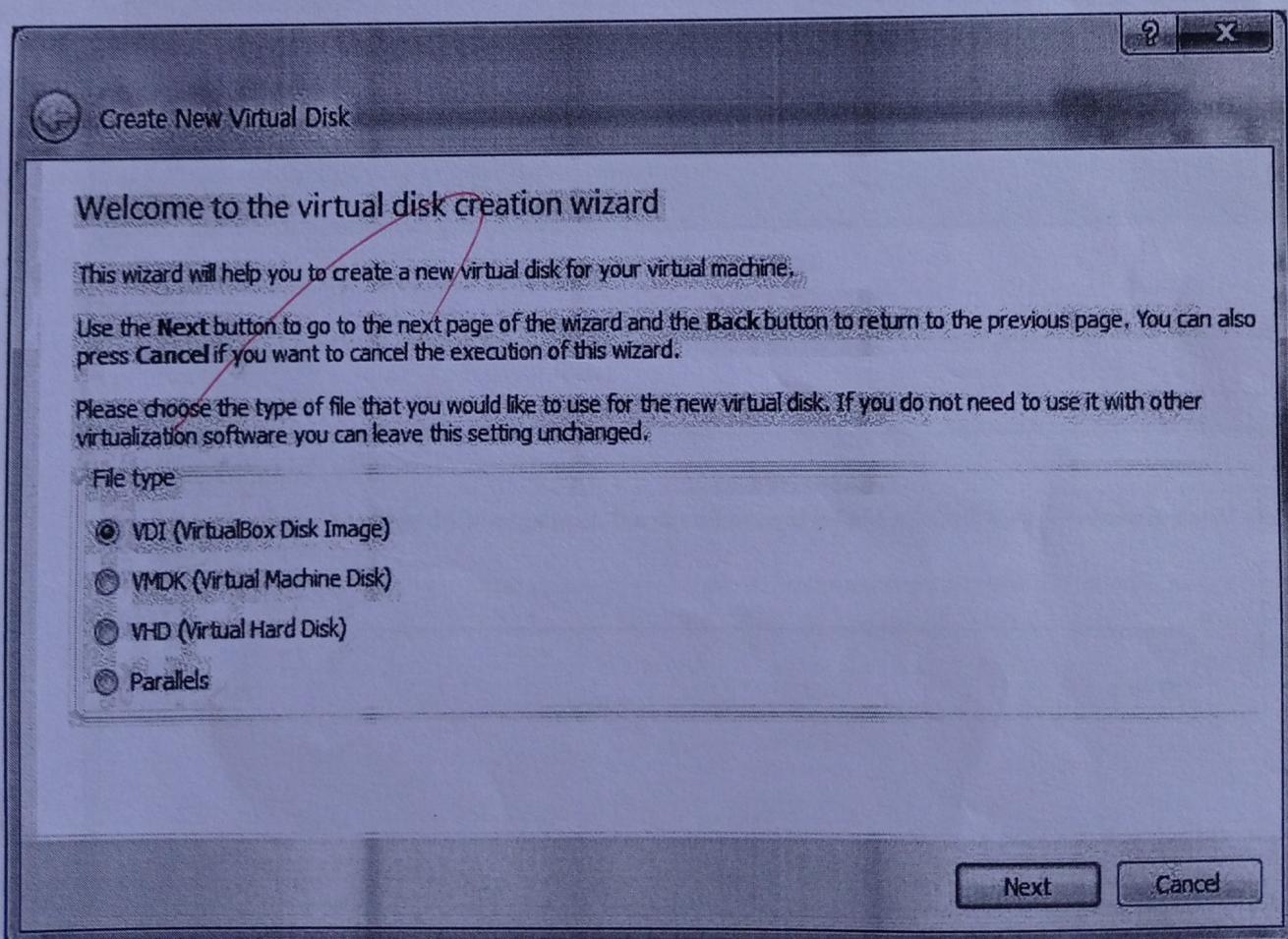
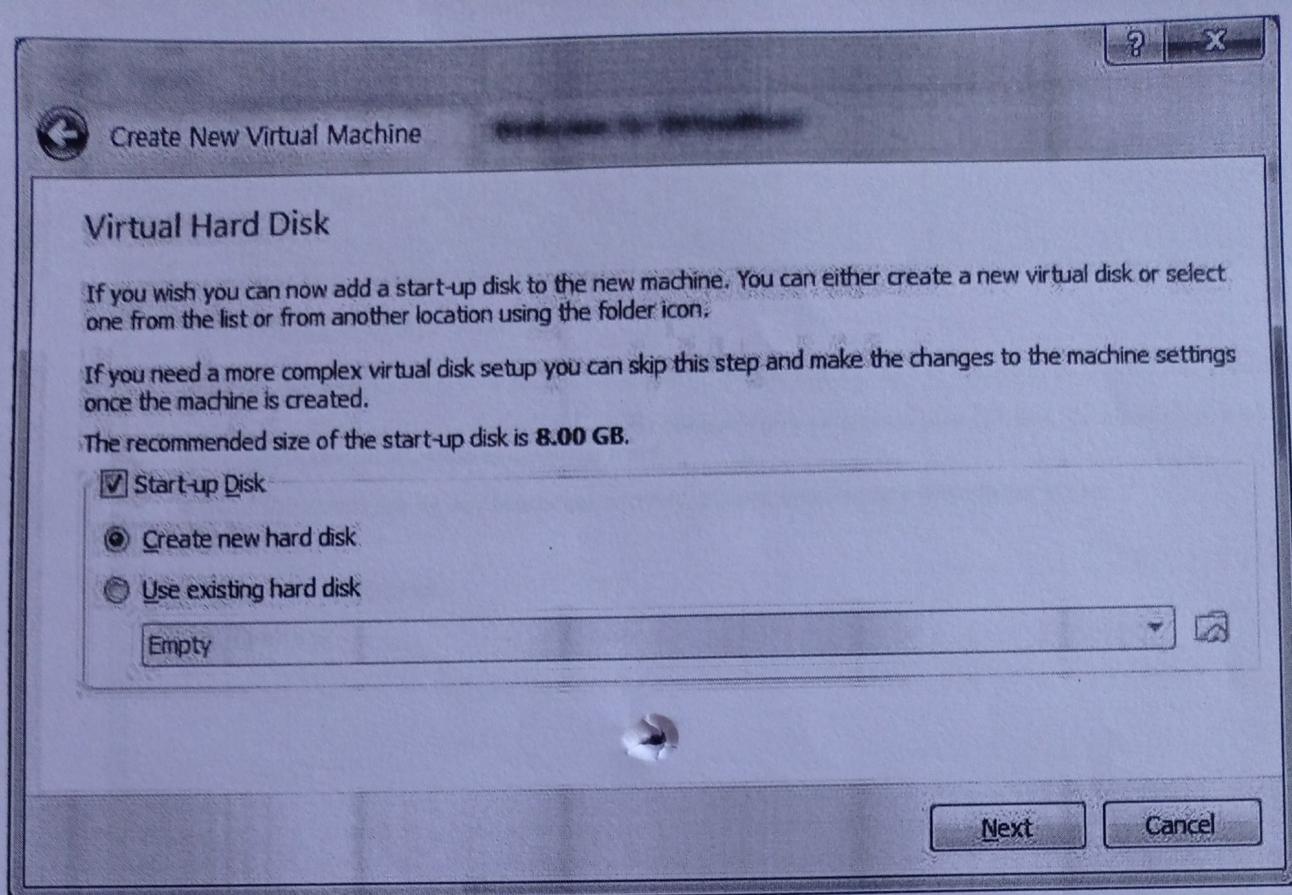
Other ways to get Ubuntu

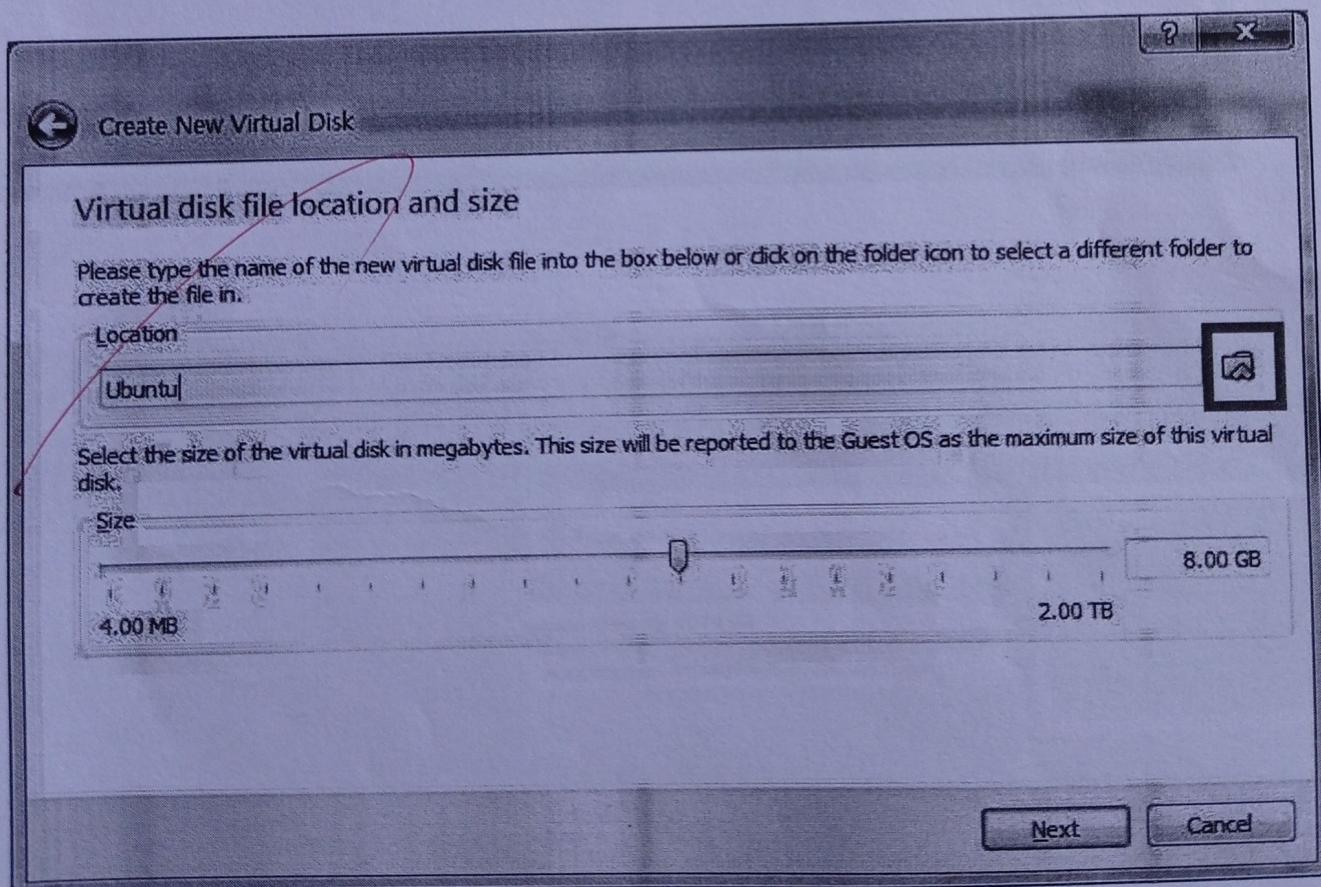
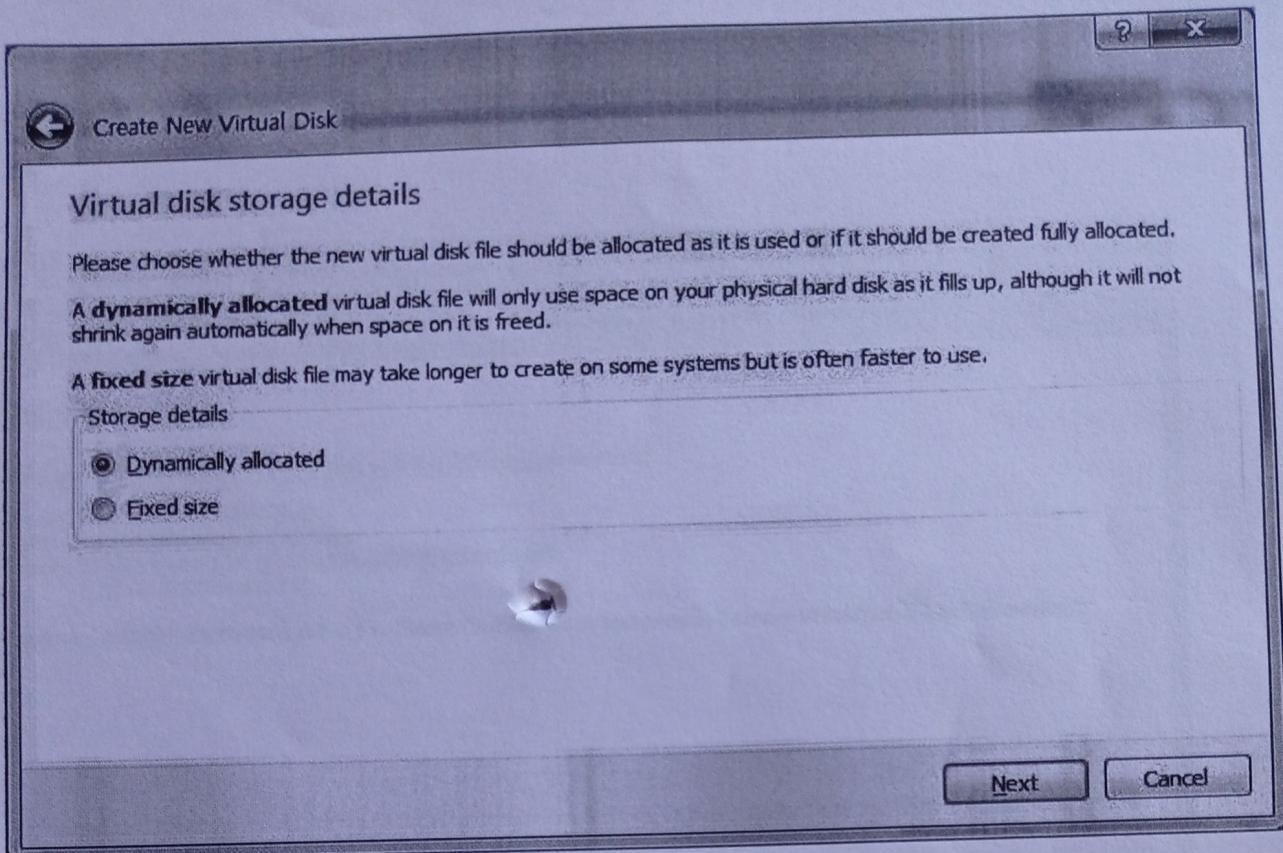
[Order CDs >](#)

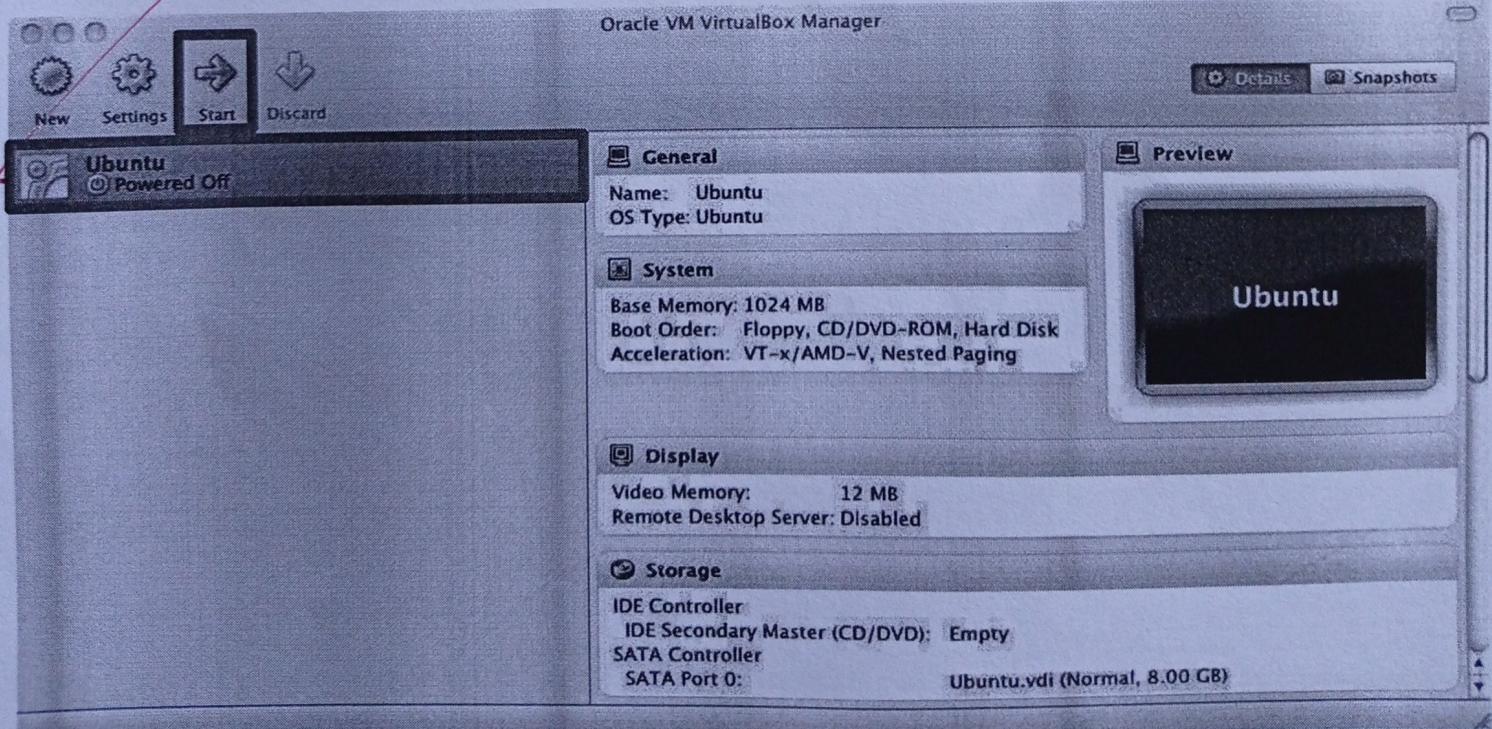
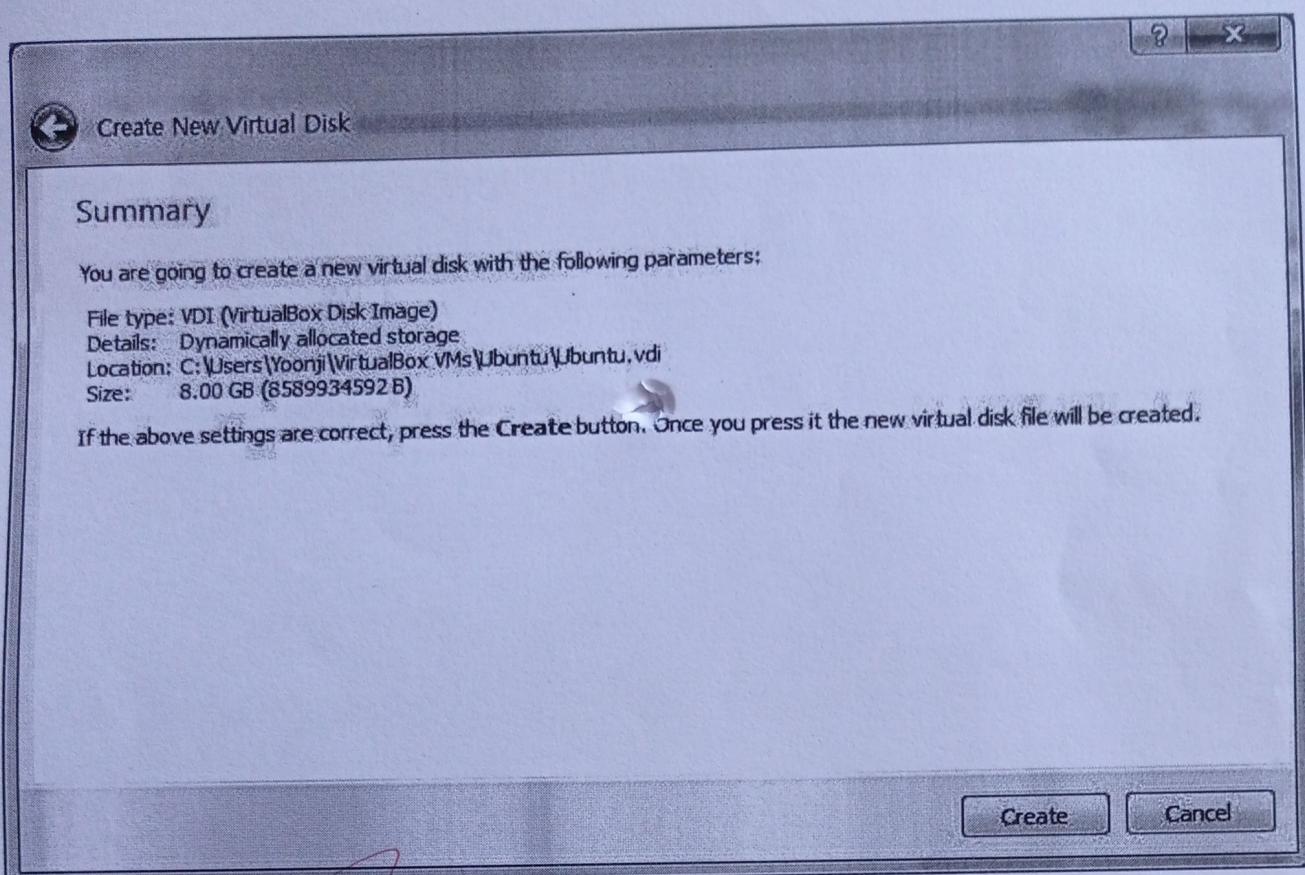
[Ubuntu Server >](#)











S. J. S. M

Result:

Thus the virtual VMware Workstation
with different flavours of Linux or window OS
on top of win 7/8 Installed Successfully.

Ex: No: 2a)

4 | 9 | 21

Install c-compiler in the virtual machine .

Aim :

To install c-compiler in the virtual machine .

Procedure :

Step 1: Install virtual box on your computer.

Step 2: Create a new virtual machine .

Step 3: ~~Navigate through ubuntu terminal &~~

Step 4: Create Project Location .

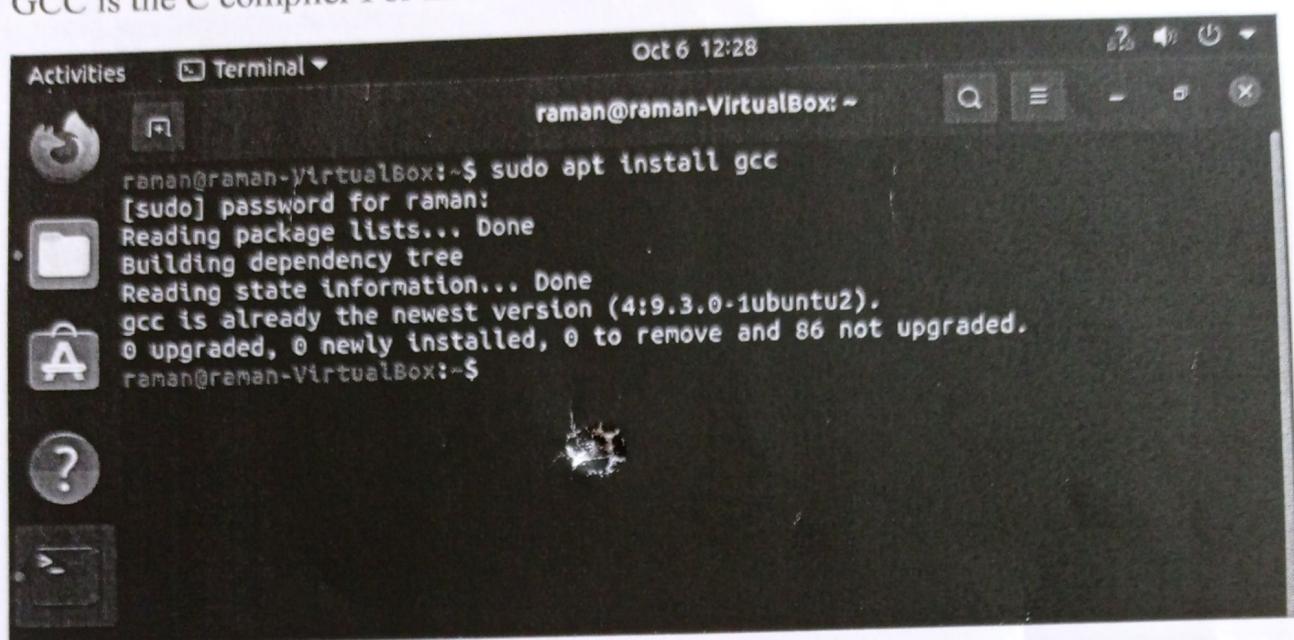
Step 5: Write your C Project in text editor .

Step 6: Compile and run your Project .

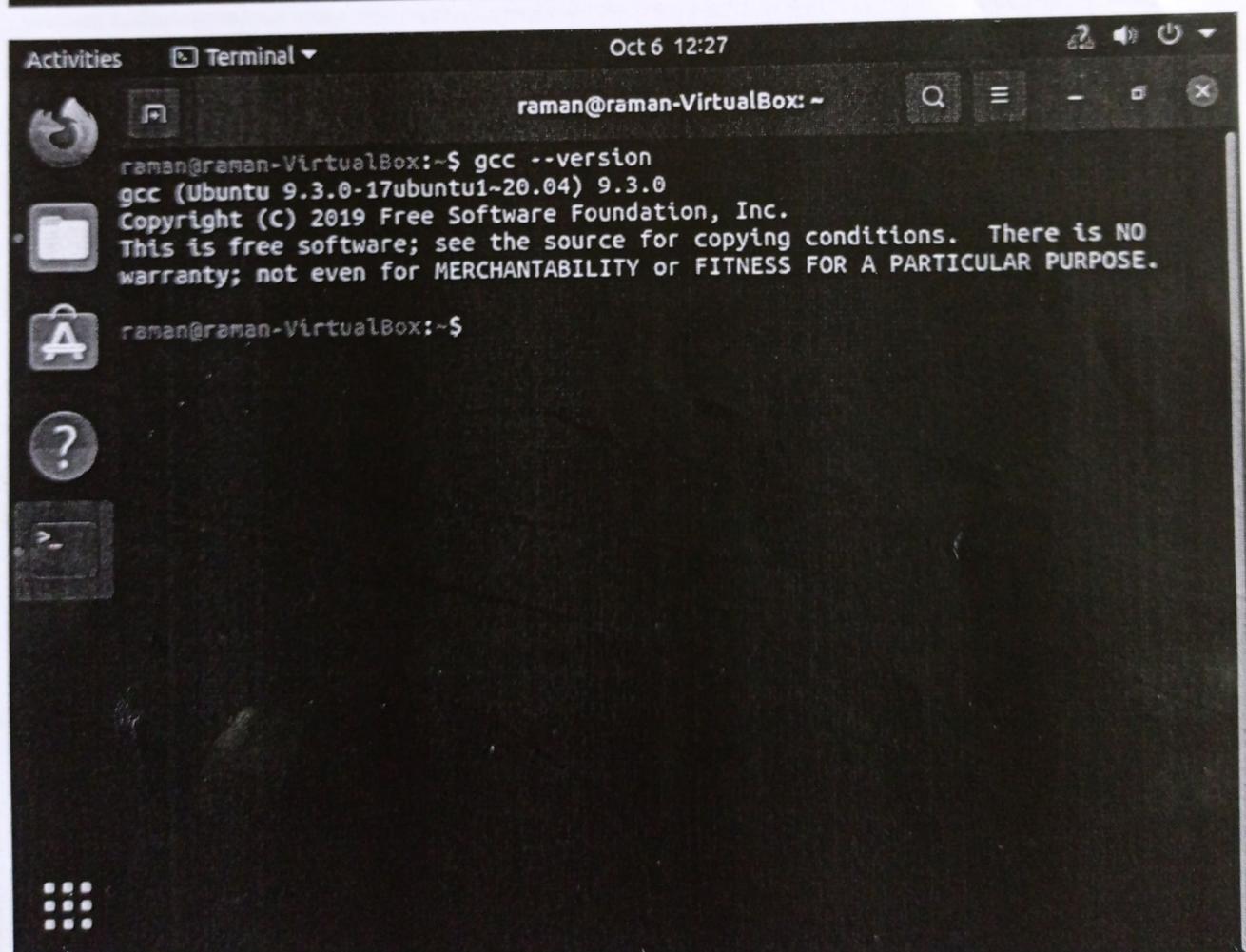
Step 7: Shutting down the VM .

EX.NO: 2a Install C Compiler in Linux OS Created by Virtual Box

GCC is the C compiler For Linux



Activities Terminal Oct 6 12:28 raman@raman-VirtualBox:~ raman@raman-VirtualBox:~\$ sudo apt install gcc [sudo] password for raman: Reading package lists... Done Building dependency tree Reading state information... Done gcc is already the newest version (4:9.3.0-1ubuntu2). 0 upgraded, 0 newly installed, 0 to remove and 86 not upgraded. raman@raman-VirtualBox:~\$



Activities Terminal Oct 6 12:27 raman@raman-VirtualBox:~ raman@raman-VirtualBox:~\$ gcc --version gcc (Ubuntu 9.3.0-17ubuntu1-20.04) 9.3.0 Copyright (C) 2019 Free Software Foundation, Inc. This is free software; see the source for copying conditions. There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. raman@raman-VirtualBox:~\$

~~bx~~ ✓ & ✓
Result :

Thus the C-compiler installation in
the virtual machine was successfully
executed and results are verified.

Ex: No: 2b) Install a compiler in Virtual machine created using Virtual Box and create simple Programs.

8/9/21

Aim:

Find Procedure to install c Compiler in virtual machine created using VM Box and execute simple Programs.

Procedure:

C Programming in Linux:

1) Open Terminal

2) Open gedit by typing "gedit &" on terminal.

3) Type the following gedit.

#include <stdio.h>

main()

{

 printf("Hello World\n");

3

4) Save as "helloworld.c"

5) Type "ls" on Terminal to see all current files.

1) Type "gcc helloworld.c" to compile, and type "ls" is created.

8) Type ". /a.out" on Terminal to run the Program.

9) If you see "Hello World" on next line, successfully ran your C program.



Ex No: 2b Run C Program in Linux OS created using Virtual Box

```
yoonji@yoonji-VirtualBox: ~
File Edit View Search Terminal Help
yoonji@yoonji-VirtualBox:~$ ls
Desktop Downloads helloworld.c Pictures Templates
Documents examples.desktop Music Public Videos
yoonji@yoonji-VirtualBox:~$ gcc helloworld.c
yoonji@yoonji-VirtualBox:~$ ls
a.out Documents examples.desktop Music Public Videos
Desktop Downloads helloworld.c Pictures Templates
yoonji@yoonji-VirtualBox:~$
```

Red circle mark is here

```
yoonji@yoonji-VirtualBox: ~
File Edit View Search Terminal Help
yoonji@yoonji-VirtualBox:~$ ls
Desktop Downloads helloworld.c Pictures Templates
Documents examples.desktop Music Public Videos
yoonji@yoonji-VirtualBox:~$ gcc helloworld.c
yoonji@yoonji-VirtualBox:~$ ls
a.out Documents examples.desktop Music Public Videos
Desktop Downloads helloworld.c Pictures Templates
yoonji@yoonji-VirtualBox:~$ ./a.out
Hello World
yoonji@yoonji-VirtualBox:~$
```

* alsh

Result :

✓ Thus the C Program using Ubuntu
in virtual machine created using Virtual Box
and created simple Program in C is created &
Successfully verified .

Ex: No: 3a)

9/9/21

Install Google app Engine

Aim:

Find Procedure to install Google app Engine Software development Kit (SDK).

Procedure:

Download and Install:

- you can download SDK by going to:
<http://code.google.com/appengine/downloads.html>
and download the install Package.
- Download the Windows Installer - the simplest thing to download it to your Desktop you remember.
- Double click on Google Application Engine installer
 - Click through the wizard to install the app.
 - Once the Install is complete you can discard the downloaded installer.

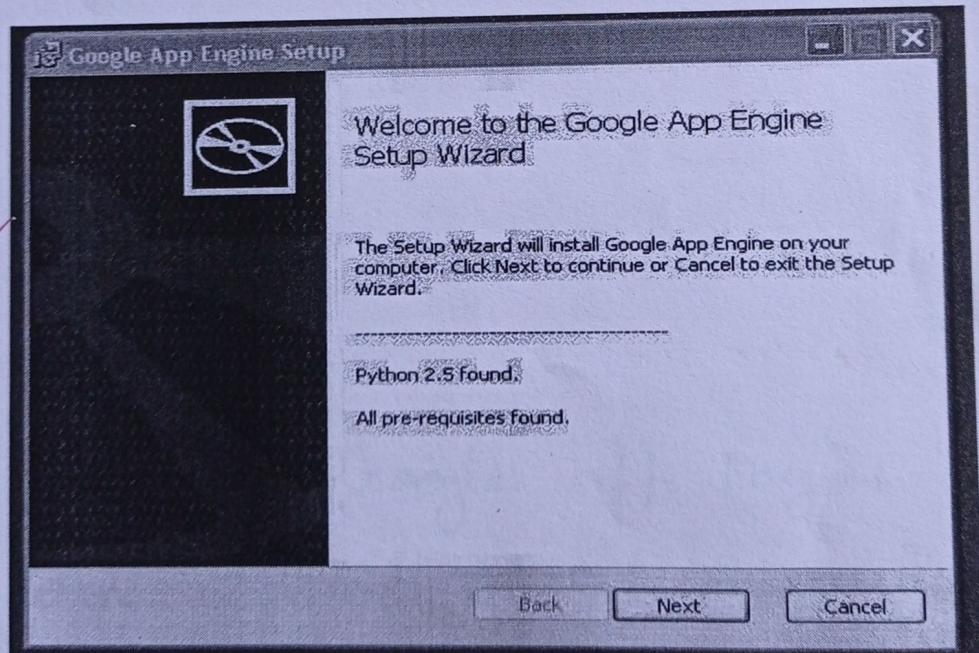
Ex No: 3a Install Google App Engine

Download the Google App Engine SDK

Before downloading, please read the [Terms](#) that govern your use of the App Engine SDK.

Please note: The App Engine SDK is under active development, please keep this in mind as you explore its capabilities. See the [SDK Release Notes](#) for the information on the most recent changes to the App Engine SDK. If you discover any issues, please feel free to notify us via our [Issue Tracker](#).

Platform	Version	Package	Size	SHA1 Checksum
Windows	1.1.5 - 10/03/08	GoogleAppEngine 1.1.5.msi	2.5 MB	e974312b4aefc0b3873ff0d93eb4c525d5e88c30
Mac OS X	1.1.5 - 10/03/08	GoogleAppEngineLauncher 1.1.5.dmg	3.6 MB	f62208ac01c1b3e39798e58100d5f1b2f052d3e7
Linux/Other Platforms	1.1.5 - 10/03/08	google_appengine 1.1.5.zip	2.6 MB	cbb9ce817bdabf1c4f181d9544864e55ee253de1



✓ instal

Result:

Thus the Google app Engine installation
is completed and it is created successfully.

Ex: No: 3b)	create a hello world app and other simple web application using Python / Java .
-------------	---

15/9/21

Aim :

Find a Procedure to create a helloworld app and other simple web application using Python / Java .

Procedure :

Make a folder for your Google app Engine .
I am going to make Folder on my Desktop called "apps" folder is :

C:\Documents and Settings\csev\Desktop\apps
And then make Sub --- folder within apps called "ac--01--trivial" - the folder would be :

~~C:\Documents and Settings\csev\Desktop\apps~~
ac--01--trivial .

application : ae-01-trivial

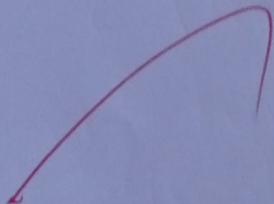
version ; 1 runtime : Python

api-version : 1

handlers :

-url : /.*scouft;
index.py

Then create a file in ac--01--trivial folder
called index.py with 3 lines:
Print 'Content-Type: text/Plain' Print "
Print 'Hello there Chuck'.



Ex.No:3b Create HelloWorld App And Other Simple Web Applications Using Python

Create app.yaml file

```
app.yaml - Notepad
File Edit Format View Help
version: 1
runtime: python
api_version: 1
handlers:
- url: /.*
  script: app.py
```

Create Python program file as app.py

```
app.py - Notepad
File Edit Format View Help
print 'Content-Type: text/plain'
print ''
print 'Hello there Chuck'
```

~~✓ 16/8/21~~

Result :

Thus the Procedure to create a helloworld
app and other simple web application using
Python / Java and created are verified
Successfully.

Ex:No:4	Use GAE Launcher to Launch the web application
---------	--

16/9/21

Aim:

Find a Procedure to use GAE Launcher to Launch the web application.

Procedure:

Start the Google App Engine Launcher Program can be found under applications . File → Add Existing App command into the directory and Select the ac-01-trivial folder . Once you have added the application using the Launcher.

Once you have Selected and Press Run . After few moments will start and Launcher will show next to your application . Then Press Browser to open application , `HTTP://localhost:8080/`.

Paste `HTTP://localhost:8080` into your browser Should see your application as follows.

Just for fun 'index.py' to change name .

"Chuck" to your own name to verify your updates.

Watching the Log:

You can watch the internal Log of actions that web server is performing when you are browse, select your application in Launcher and Press the Logs up a Log window.

Each time you Press Refresh in your browser - you can see output with GET request.

Dealing with Errors:

With two files to edit, there are 2 general categories of errors that you encounter. If you make mistake off.yaml file, the App Engine will not start to Launcher near your application.

In this Instance - the mistake is mis-indenting last time in off.yaml.

If you make Syntax error, a Python trace back error will appear in browser.

The error you need to see likely to be last few lines of output - in case I made a Python Syntax error on Line one of our one-line application.

Reference : http://en.wikipedia.org/wiki/Stack_trace

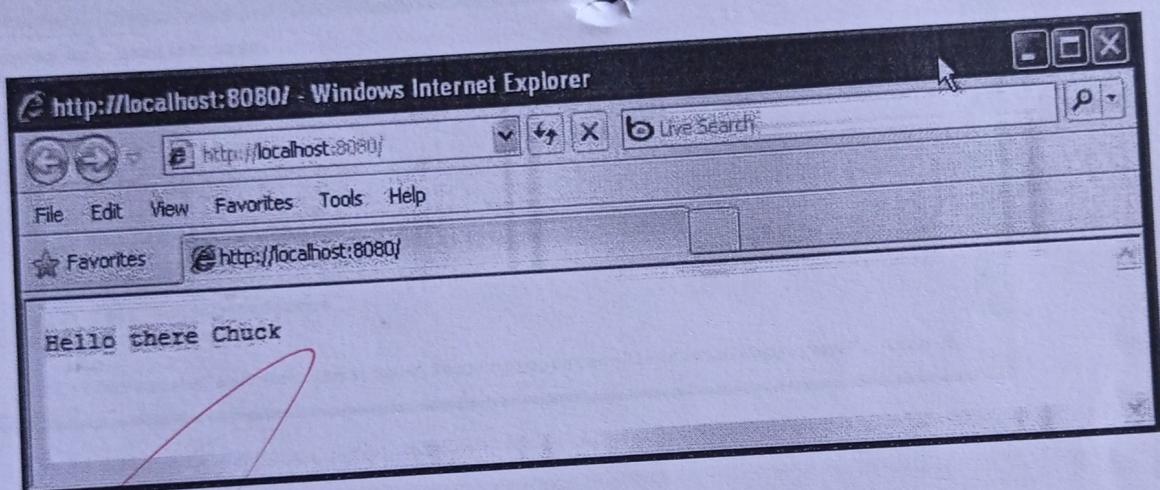
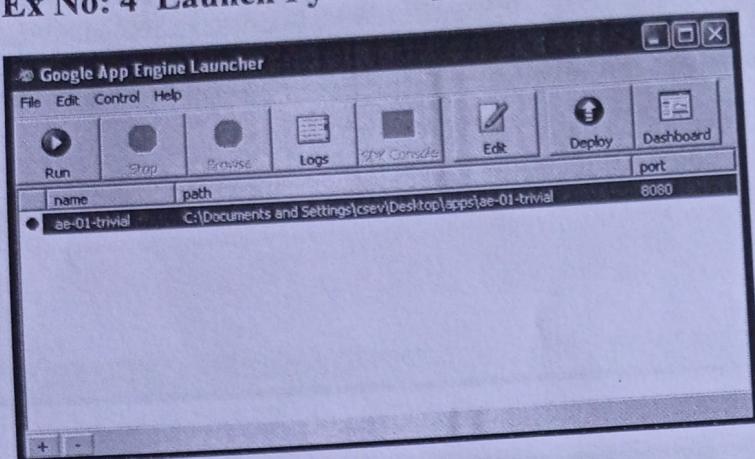
If you make a mistake in file index.py, you can simply fix the file and Press refresh your browser - there is no need to restart the server.

Shutting down the Server:

To shut down the server, use the Launcher, select your application and Press the Stop button.

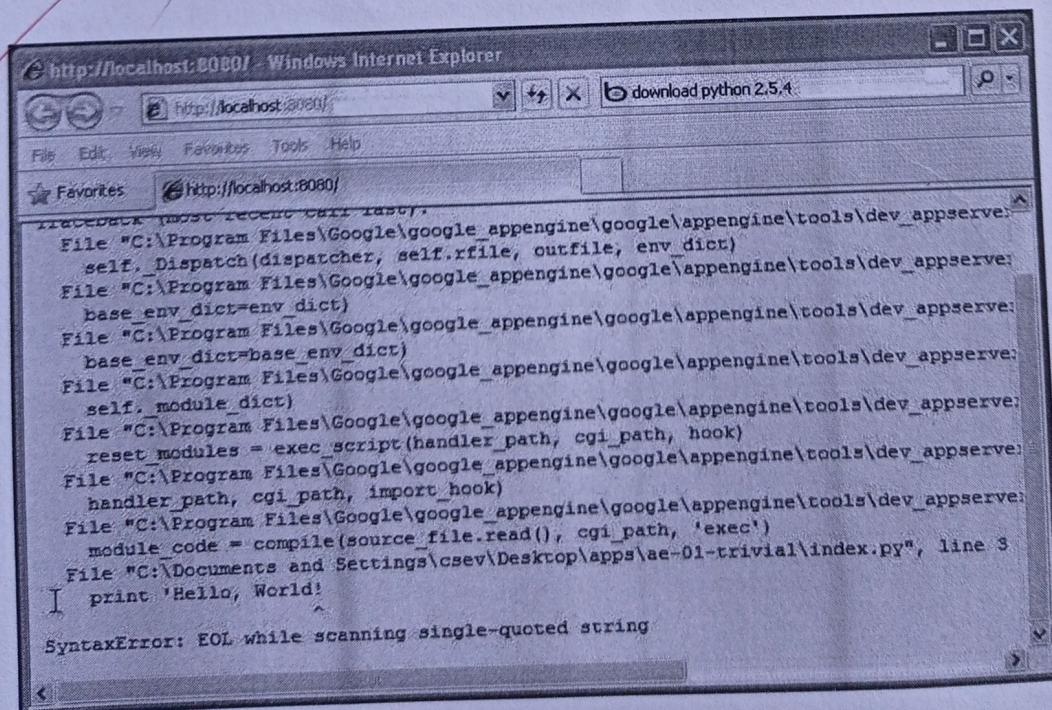
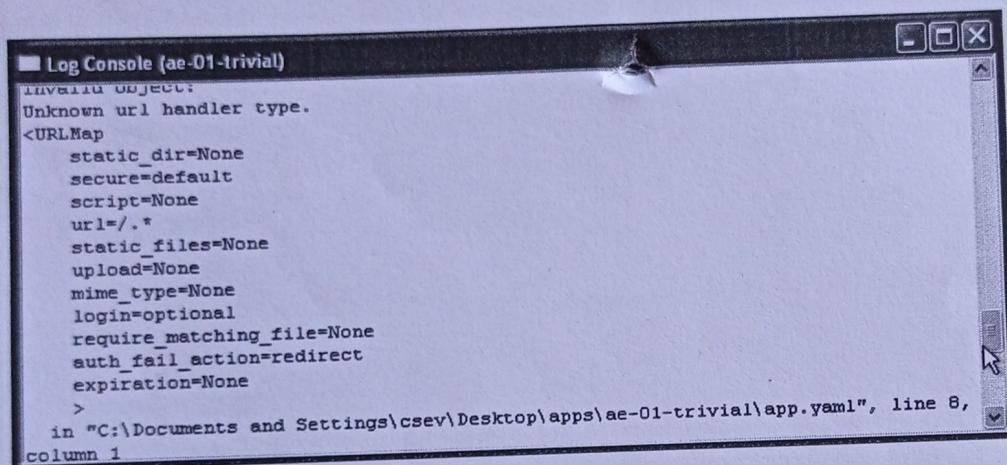
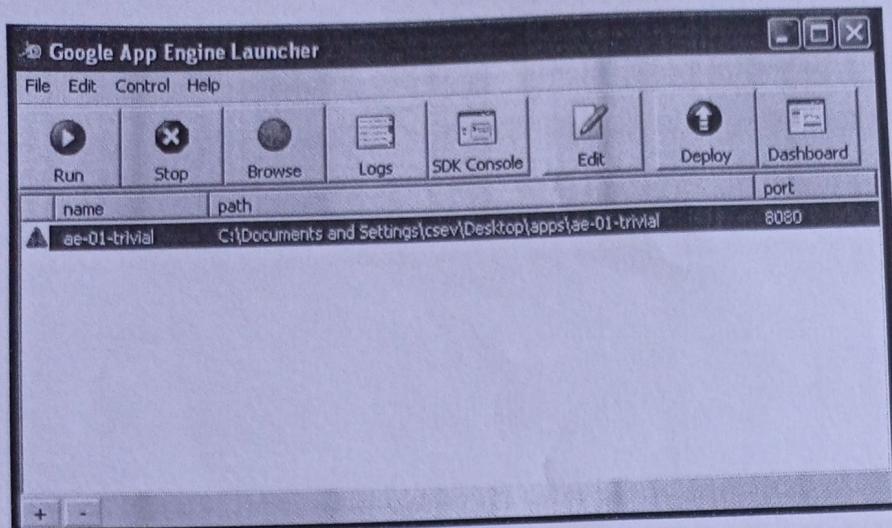


Ex No: 4 Launch Python Application Using Google App Engine



The screenshot shows the "Log Console (ae-01-trivial)" window. The log output is as follows:

```
WARNING 2010-03-13 18:03:13,796 datastore_file_stub.py:623] Could not read
datastore data from c:\docume~1\csev\locals~1\temp\dev_appserver.datastore
WARNING 2010-03-13 18:03:13,796 dev_appserver.py:3581] Could not initialize
images API; you are likely missing the Python "PIL" module. ImportError: No module
named _imaging
INFO    2010-03-13 18:03:13,828 dev_appserver_main.py:399] Running application
ae-01-trivial on port 8080: http://localhost:8080
INFO    2010-03-13 18:03:24,717 dev_appserver.py:3246] "GET / HTTP/1.1" 200 -
INFO    2010-03-13 18:03:24,733 dev_appserver_index.py:205] Updating C:\Documents
and Settings\csev\Desktop\apps\ae-01-trivial\index.yaml
INFO    2010-03-13 18:03:24,967 dev_appserver.py:3246] "GET / HTTP/1.1" 200 -
2010-03-13 13:03:30 (Process exited with code -1)
```



✓ 28/8/21

~~Result :~~

Thus the Procedure to find the using
GIAE Launcher to Launch the web
application is created and verified
Successfully.