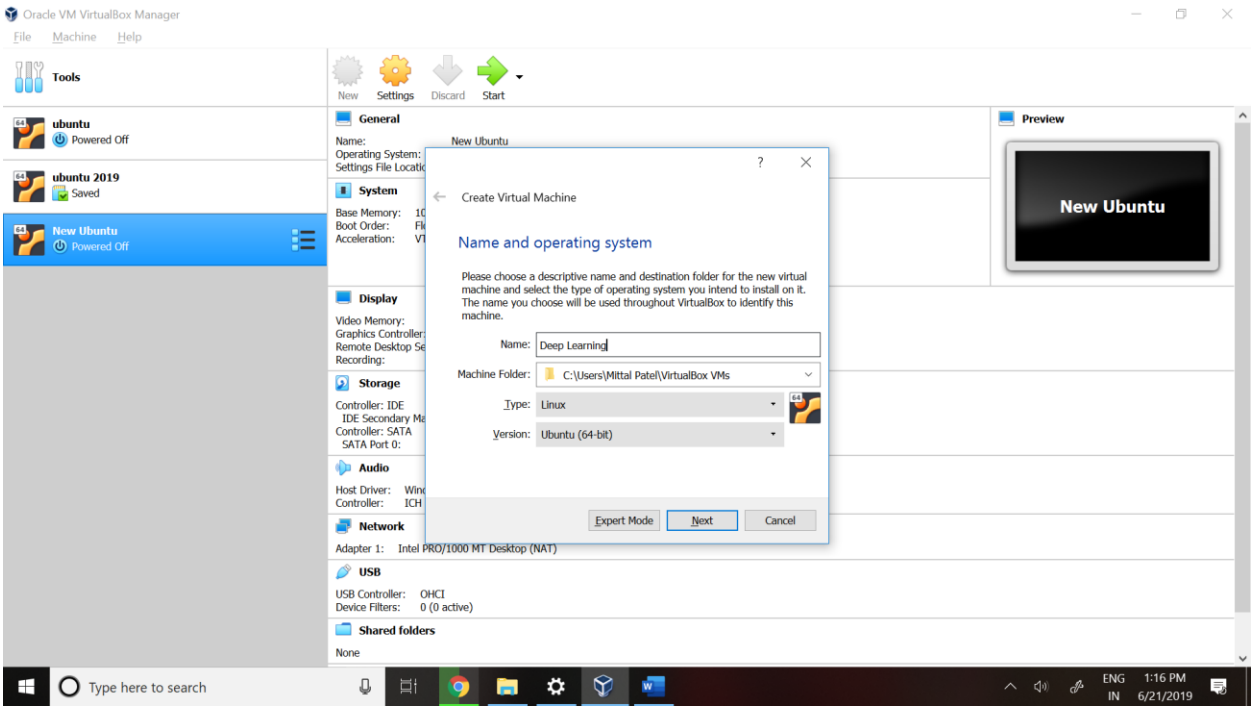
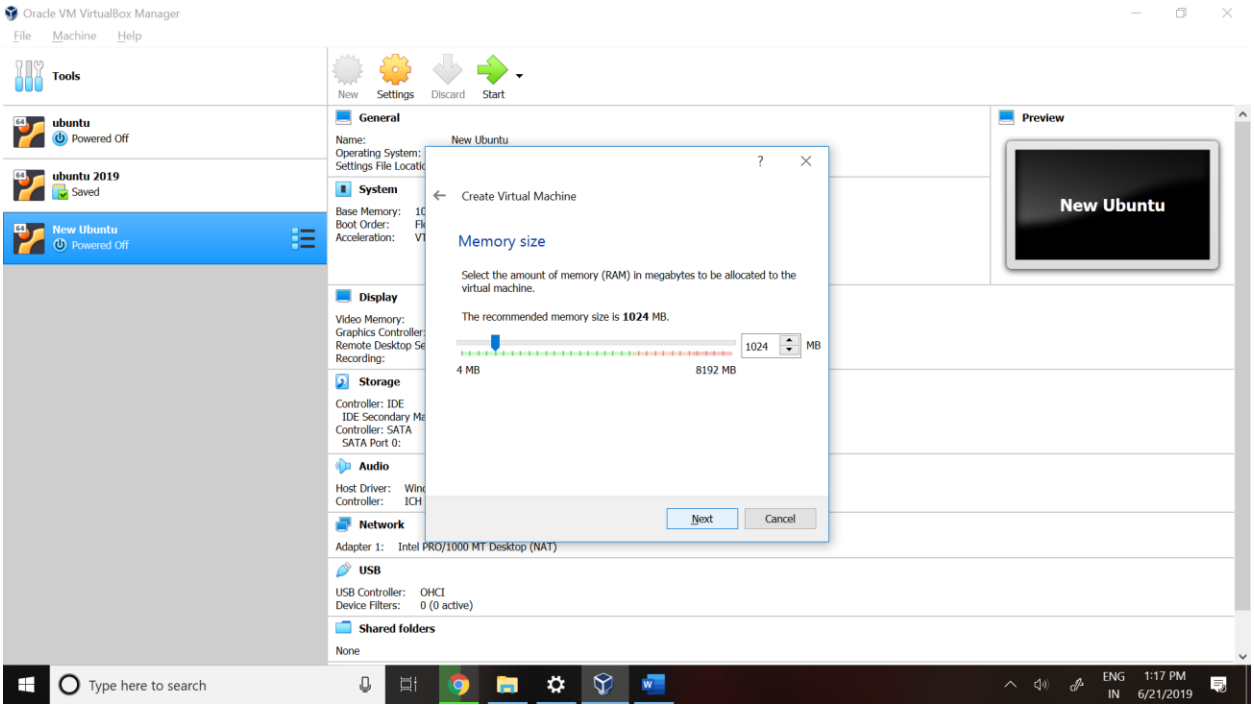
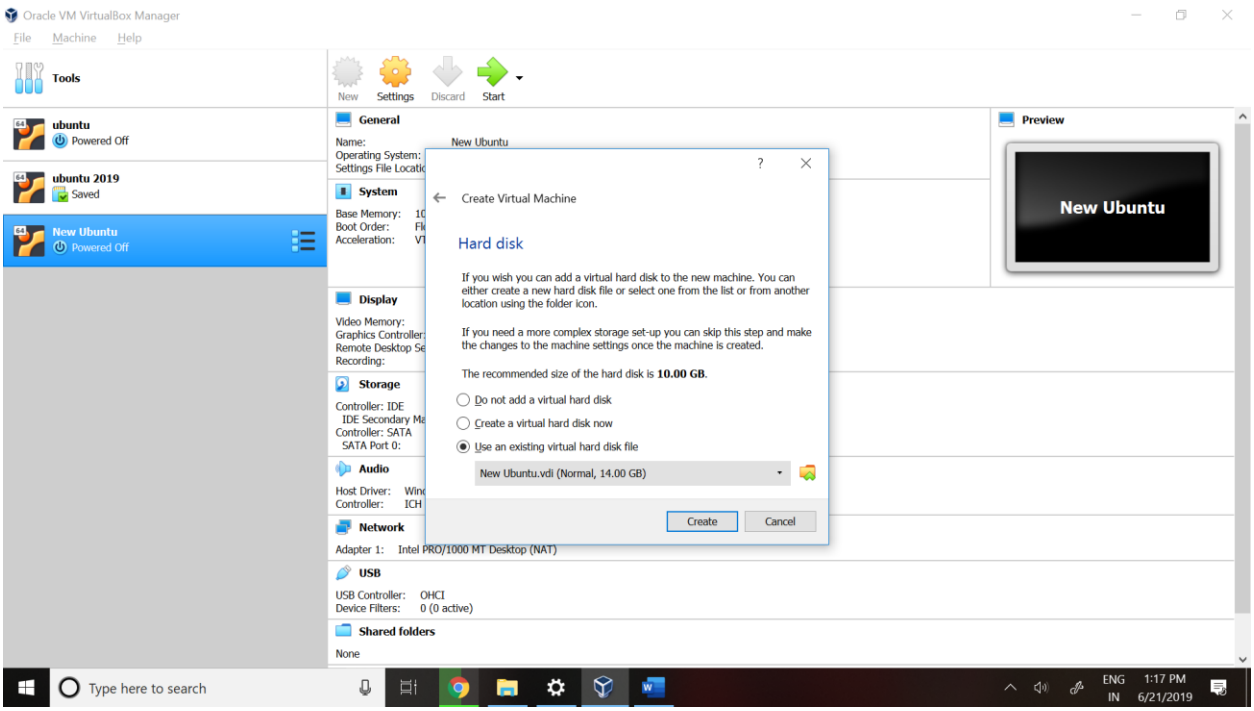
Create Workspace by installing Tensor Flow on VM

Step 1: Download the 7.7GB VM .tar.gz file form https://medium.com/@ageitgey/try-deep-learning-in-python-now-with-a-fully-pre-configured-vm-1d97d4c3e9b and then Unzip the File.

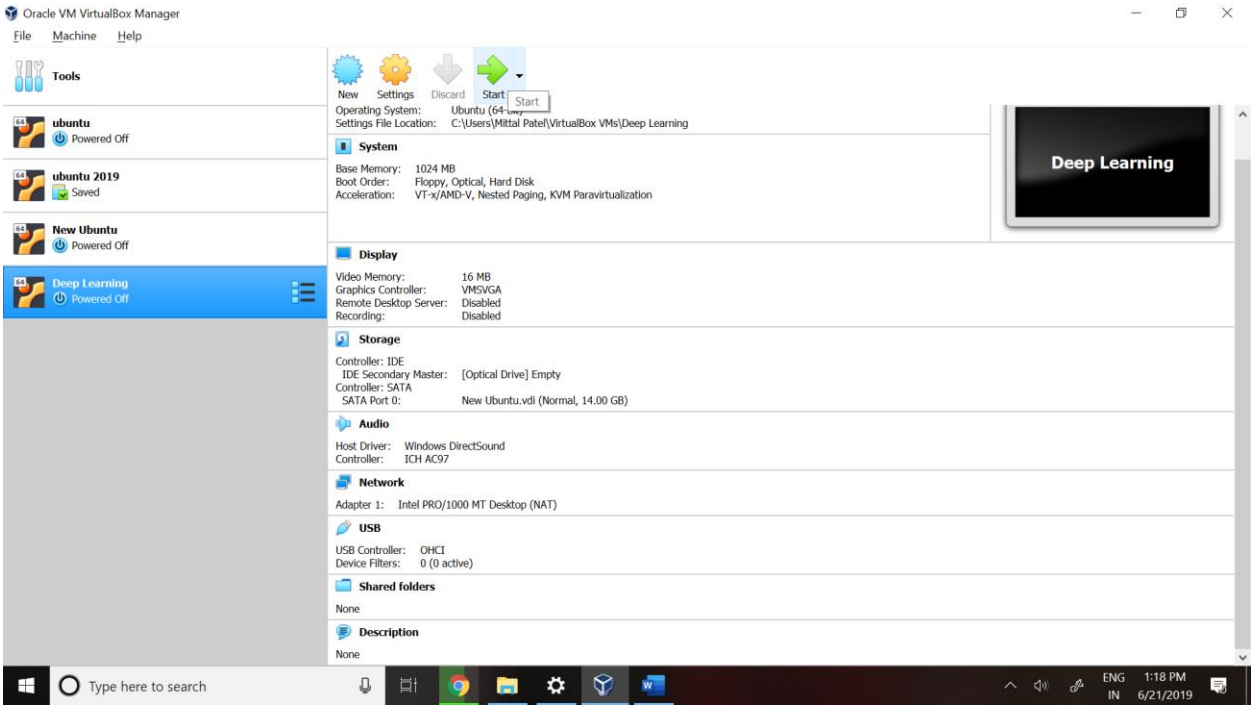
Step 2: create a new Virtual Machine through Oracle Virtual Box Manager as shown below:

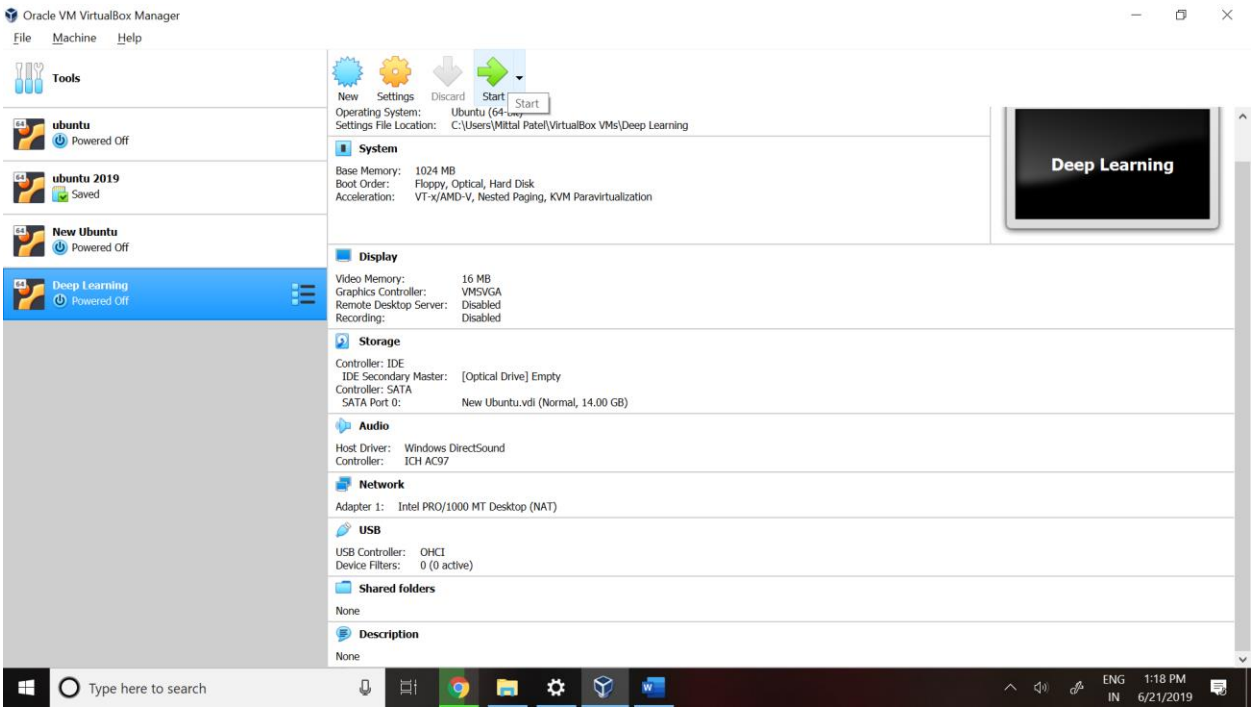


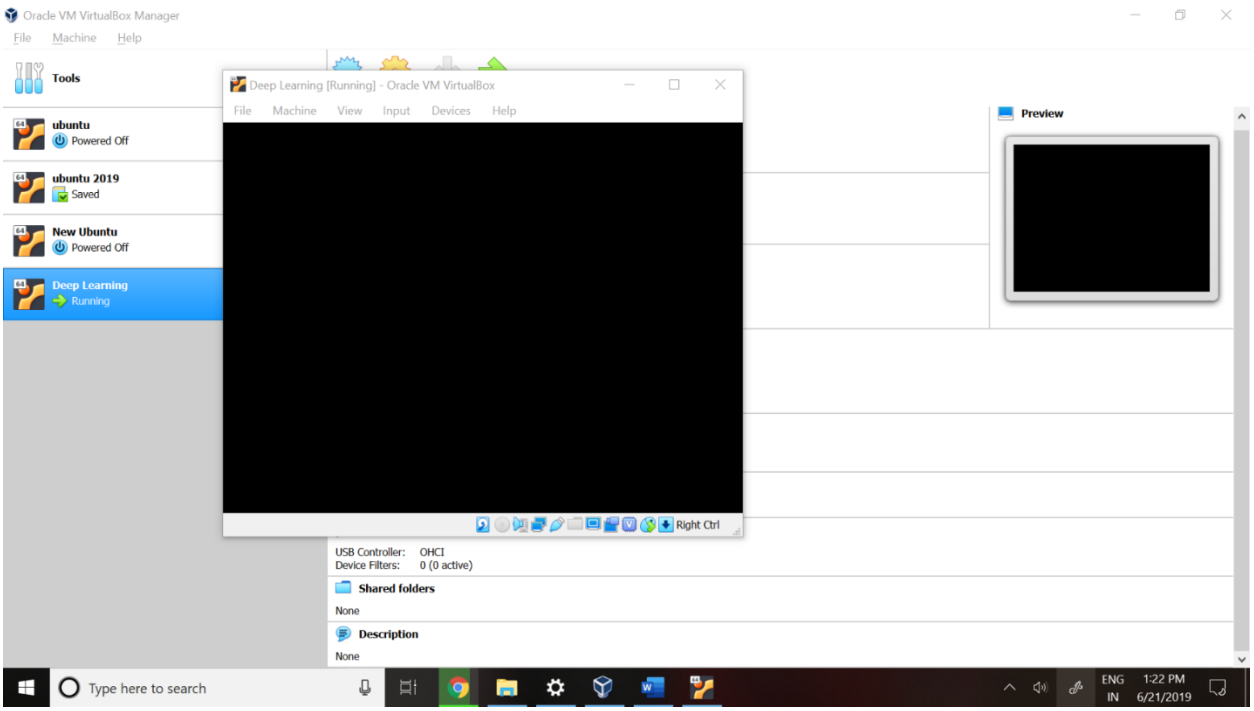

Oracle VM VirtualBox Manager
File Machine Help
Tools
New Settings Discard Start
ubuntu
Powered Off
ubuntu 2019
Saved
New Ubuntu
Powered Off
General
Name: New Ubuntu
Operating System:
Settings File Locati
System
Base Memory: 1
Boot Order: Fl
Acceleration: V
Display
Video Memory:
Graphics Controller:
Remote Desktop Se
Recording:
Storage
Controller: IDE
IDE Secondary Ma
Controller: SATA
SATA Port 0:
Audio
Host Driver: Win
Controller: ICH
Network
Adapter 1: Intel PRO/1000 MT Desktop (NAT)
USB
USB Controller: OHCI
Device Filters: 0 (0 active)
Shared folders
None
Preview
New Ubuntu
Create Virtual Machine
Memory size
Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.
The recommended memory size is 1024 MB.
1024 MB
4 MB
8192 MB
Next
Cancel
Type here to search
ENG IN 1:17 PM 6/21/2019


Oracle VM VirtualBox Manager
File Machine Help
Tools
New Settings Discard Start
ubuntu
Powered Off
ubuntu 2019
Saved
New Ubuntu
Powered Off
General
Name: New Ubuntu
Operating System:
Settings File Locati
System
Base Memory: 1
Boot Order: Fl
Acceleration: V
Display
Video Memory:
Graphics Controller:
Remote Desktop Se
Recording:
Storage
Controller: IDE
IDE Secondary Ma
Controller: SATA
SATA Port 0:
Audio
Host Driver: Win
Controller: ICH
Network
Adapter 1: Intel PRO/1000 MT Desktop (NAT)
USB
USB Controller: OHCI
Device Filters: 0 (0 active)
Shared folders
None
Preview
New Ubuntu
Create Virtual Machine
Hard disk
If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.
If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.
The recommended size of the hard disk is 10.00 GB.
Do not add a virtual hard disk
Create a virtual hard disk now
Use an existing virtual hard disk file
New Ubuntu.vdi (Normal, 14.00 GB)
Create
Cancel
Type here to search
ENG IN 1:17 PM 6/21/2019

Step 3: After creating a new Virtual Machine through Oracle Virtual Box Manager, Start it.



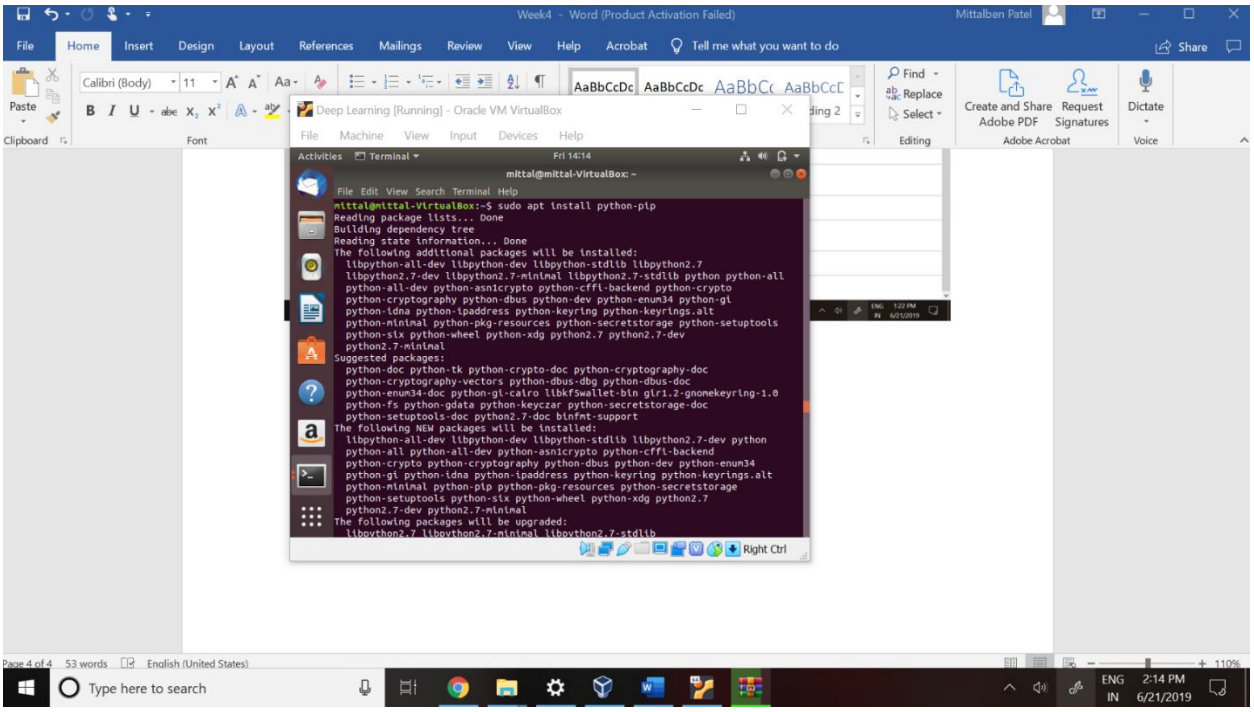


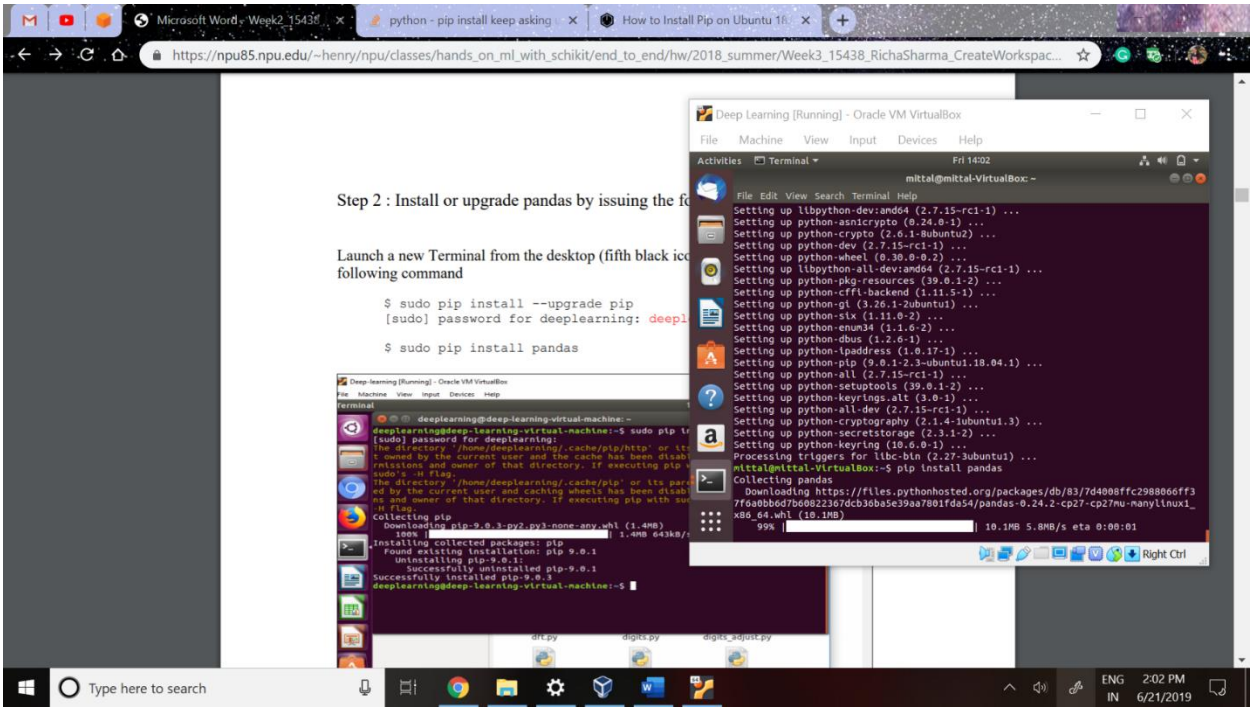

Oracle VM VirtualBox Manager
File Machine Help
Tools
ubuntu
Powered Off
ubuntu 2019
Saved
New Ubuntu
Powered Off
Deep Learning
Running
Deep Learning [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Right Ctrl
Preview
USB Controller: OHCI
Device Filters: 0 (0 active)
Shared folders
None
Description
None
Type here to search
ENG
IN
1:22 PM
6/21/2019

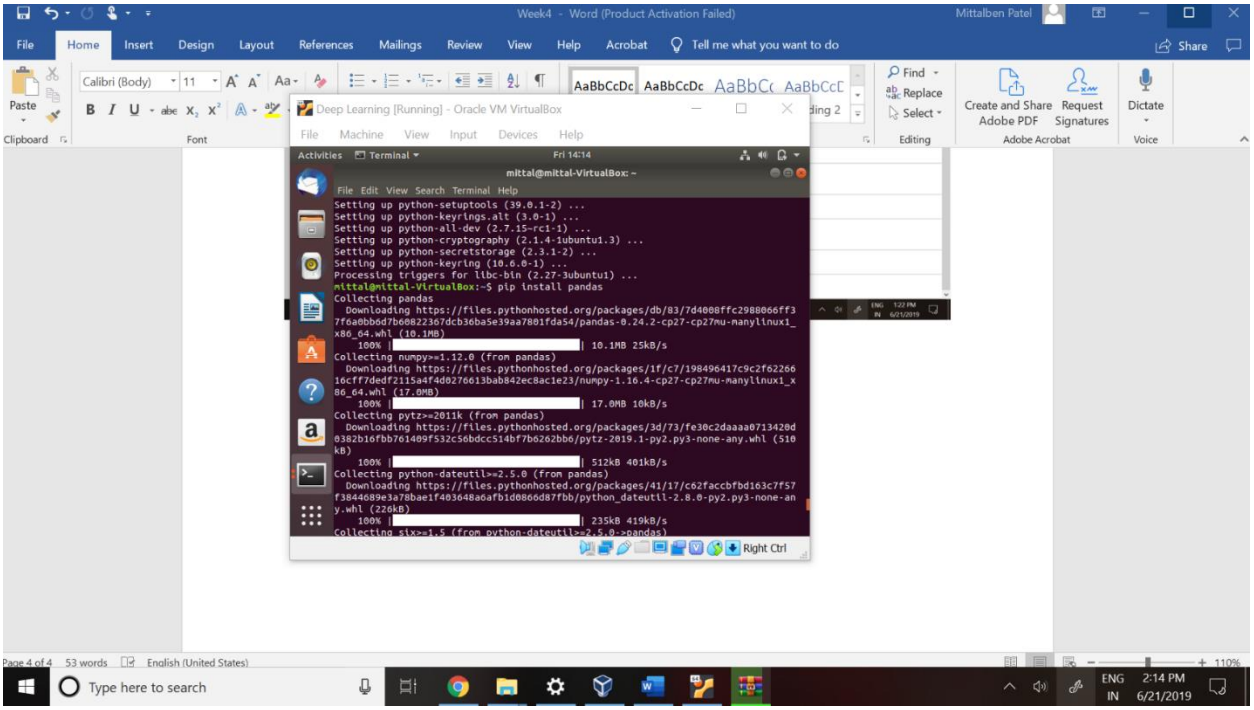

Activities
Welcome to Ubuntu
Fri 13:26
What's new in Ubuntu
Next
What's new in Ubuntu
Ubuntu 18.04 works differently from older versions.
Application menu
Calendar and notifications
Window switcher
Activities
Files
Tue 13:32
System me
Dock
Close butt
Apps button

Step 4: Start Terminal and do the following steps:

1. **Install/ Update Python-pip**
2. **Install/ Update Pandas**

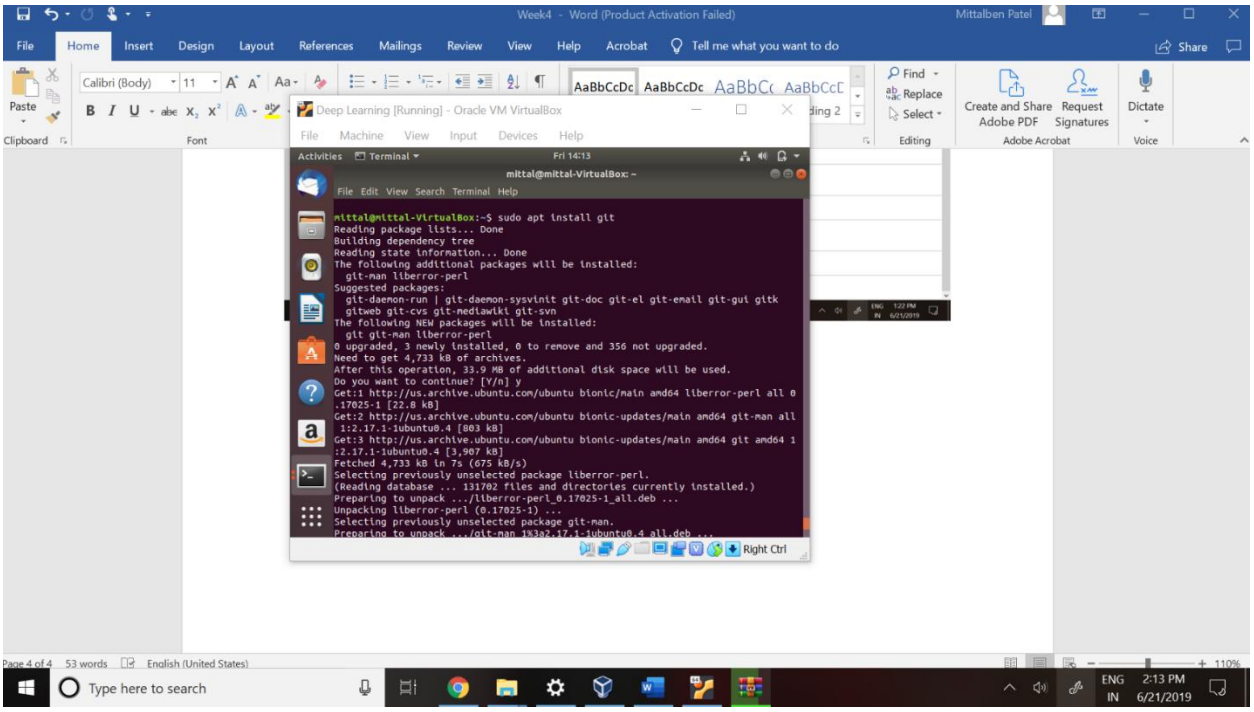


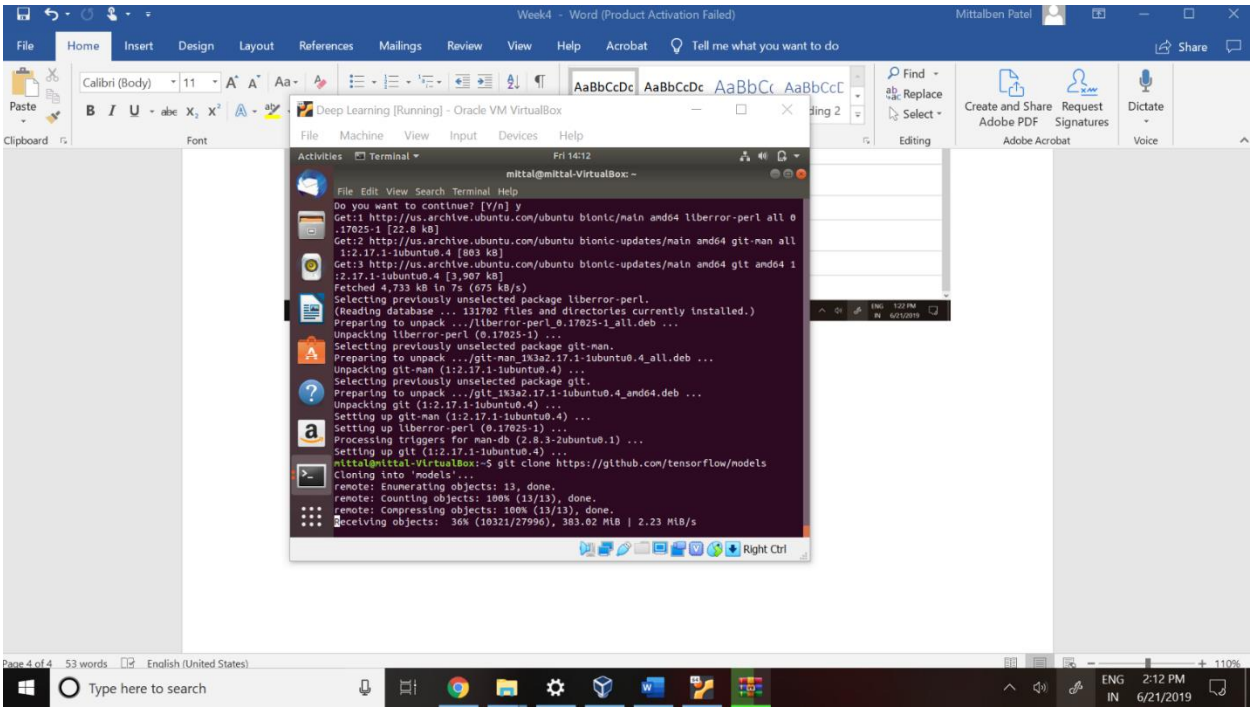

Microsoft Word - Week2_15438
python - pip install keep asking
How to Install Pip on Ubuntu 18
https://npu85.npu.edu/~henry/npu/classes/hands_on_ml_with_schikit/end_to_end/hw/2018_summer/Week3_15438_RichaSharma_CreateWorkspac...
Step 2 : Install or upgrade pandas by issuing the fo
Launch a new Terminal from the desktop (fifth black ic
following command
$ sudo pip install --upgrade pip
[sudo] password for deeplearning: deepl
$ sudo pip install pandas
Deep Learning [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Fri 14:02
mittal@mittal-VirtualBox: ~
File Edit View Search Terminal Help
Setting up libpython-dev:amd64 (2.7.15-rc1-1) ...
Setting up python-asn1crypto (0.24.0-1) ...
Setting up python-crypto (2.6.1-8ubuntu2) ...
Setting up python-dev (2.7.15-rc1-1) ...
Setting up python-wheel (0.30.0-0.2) ...
Setting up libpython-all-dev:amd64 (2.7.15-rc1-1) ...
Setting up python-pkg-resources (39.0.1-2) ...
Setting up python-cffi-backend (1.11.5-1) ...
Setting up python-gi (3.26.1-2ubuntu1) ...
Setting up python-six (1.11.0-2) ...
Setting up python-enum34 (1.1.6-2) ...
Setting up python-dbus (1.2.6-1) ...
Setting up python-ipaddress (1.0.17-1) ...
Setting up python-pip (9.0.1-2.3~ubuntu1.18.04.1) ...
Setting up python-all (2.7.15~rc1-1) ...
Setting up python-setuptools (39.0.1-2) ...
Setting up python-keyrings.alt (3.0-1) ...
Setting up python-all-dev (2.7.15~rc1-1) ...
Setting up python-cryptography (2.1.4-1ubuntu1.3) ...
Setting up python-secretstorage (2.3.1-2) ...
Setting up python-keyring (10.6.0-1) ...
Processing triggers for libc-bin (2.27-3ubuntu1) ...
mittal@mittal-VirtualBox:~$ pip install pandas
Collecting pandas
Downloading https://files.pythonhosted.org/packages/db/83/7d4008ffc2988066ff37f6a0bb6d7b60822367dcb36ba5e39aa7801fda54/pandas-0.24.2-cp27-cp27mu-manylinux1_x86_64.whl (10.1MB)
99% | 10.1MB 5.8MB/s eta 0:00:01
Right Ctrl
Type here to search
ENG IN 2:02 PM 6/21/2019

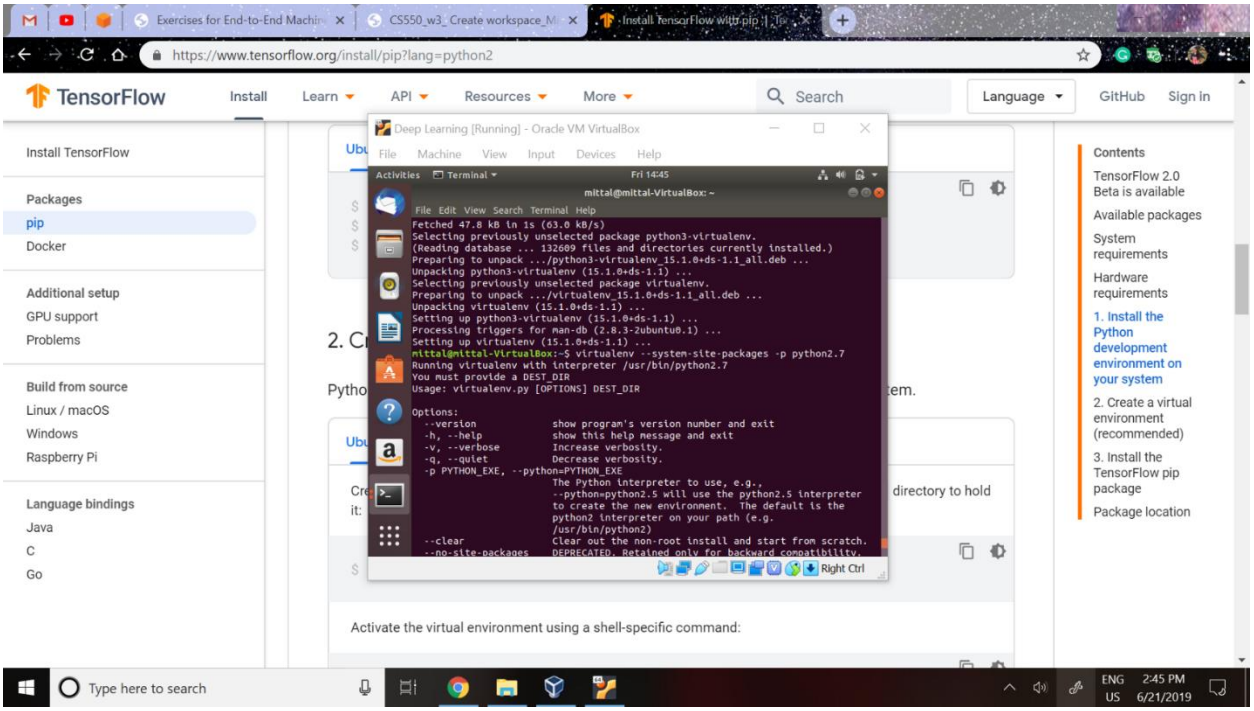

Week4 - Word (Product Activation Failed)
Mittalben Patel
File Home Insert Design Layout References Mailings Review View Help Acrobat Tell me what you want to do
Share
Paste
Clipboard
Font
Find
Replace
Select
Editing
Create and Share Adobe PDF
Request Signatures
Adobe Acrobat
Dictate
Voice
Deep Learning [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Fri 14:14
mittal@mittal-VirtualBox: ~
File Edit View Search Terminal Help
Setting up python-setuptools (39.0.1-2) ...
Setting up python-keyrings.alt (3.0-1) ...
Setting up python-all-dev (2.7.15~rc1-1) ...
Setting up python-cryptography (2.1.4-1ubuntu1.3) ...
Setting up python-secretstorage (2.3.1-2) ...
Setting up python-keyring (10.6.0-1) ...
Processing triggers for libc-bin (2.27-3ubuntu1) ...
mittal@mittal-VirtualBox:~$ pip install pandas
Collecting pandas
Downloading https://files.pythonhosted.org/packages/db/83/7d4008ffc2988066ff37f6a0bb6d7b60822367dcb36ba5e39aa7801fda54/pandas-0.24.2-cp27-cp27mu-manylinux1_x86_64.whl (10.1MB)
100% | 10.1MB 25kB/s
Collecting numpy>=1.12.0 (from pandas)
Downloading https://files.pythonhosted.org/packages/1f/c7/198496417c9c2f6226616cff7dedf2115a4f4d0276613bab842ec8ac1e23/numpy-1.16.4-cp27-cp27mu-manylinux1_x86_64.whl (17.0MB)
100% | 17.0MB 10kB/s
Collecting pytz>=2011k (from pandas)
Downloading https://files.pythonhosted.org/packages/3d/73/fe30c2daaaa0713420d0382b16fbb761409f532c56bdccc514bf7b6262bb6/pytz-2019.1-py2.py3-none-any.whl (510kB)
100% | 512kB 401kB/s
Collecting python-dateutil>=2.5.0 (from pandas)
Downloading https://files.pythonhosted.org/packages/41/17/c62faccbfbd163c7f57f3844d89e3a78bae1f403648a0afb1d0866d87fbb/python_dateutil-2.8.0-py2.py3-none-any.whl (226kB)
100% | 235kB 419kB/s
Collecting six>=1.5 (from python-dateutil>=2.5.0->pandas)
Right Ctrl
Page 4 of 4 53 words English (United States)
110%
Type here to search
ENG IN 2:14 PM 6/21/2019

Step 5: Now clone the Repository from GitHub:

1. **Install/update Git with ~Sudo apt install Git Command**
2. **Clone the repository.**






Exercises for End-to-End Machi
CS550_w3_ Create workspace_M
Install TensorFlow with pip | Te
https://www.tensorflow.org/install/pip?lang=python2
TensorFlow
Install
Learn
API
Resources
More
Search
Language
GitHub
Sign in
Install TensorFlow
Packages
pip
Docker
Additional setup
GPU support
Problems
Build from source
Linux / macOS
Windows
Raspberry Pi
Language bindings
Java
C
Go
Deep Learning [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Fri 14:45
mittal@mittal-VirtualBox: ~
File Edit View Search Terminal Help
Fetched 47.8 kB in 1s (63.0 kB/s)
Selecting previously unselected package python3-virtualenv.
(Reading database ... 132609 files and directories currently installed.)
Preparing to unpack .../python3-virtualenv_15.1.0+ds-1.1_all.deb ...
Unpacking python3-virtualenv (15.1.0+ds-1.1) ...
Selecting previously unselected package virtualenv.
Preparing to unpack .../virtualenv_15.1.0+ds-1.1_all.deb ...
Unpacking virtualenv (15.1.0+ds-1.1) ...
Setting up python3-virtualenv (15.1.0+ds-1.1) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Setting up virtualenv (15.1.0+ds-1.1) ...
mittal@mittal-VirtualBox:~$ virtualenv --system-site-packages -p python2.7
Running virtualenv with interpreter /usr/bin/python2.7
You must provide a DEST_DIR
Usage: virtualenv.py [OPTIONS] DEST_DIR
Options:
--version show program's version number and exit
-h, --help show this help message and exit
-v, --verbose Increase verbosity.
-q, --quiet Decrease verbosity.
-p PYTHON_EXE, --python=PYTHON_EXE
The Python interpreter to use, e.g.,
--python=python2.5 will use the python2.5 interpreter
to create the new environment. The default is the
python2 interpreter on your path (e.g.
/usr/bin/python2)
--clear Clear out the non-root install and start from scratch.
--no-site-packages DEPRECATED. Retained only for backward compatibility.
Right Ctrl
Contents
TensorFlow 2.0 Beta is available
Available packages
System requirements
Hardware requirements
1. Install the Python development environment on your system
2. Create a virtual environment (recommended)
3. Install the TensorFlow pip package
Package location
directory to hold
Activate the virtual environment using a shell-specific command:
Type here to search
ENG US
2:45 PM 6/21/2019