Summer Training Task #1

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Electrical Engineering Department
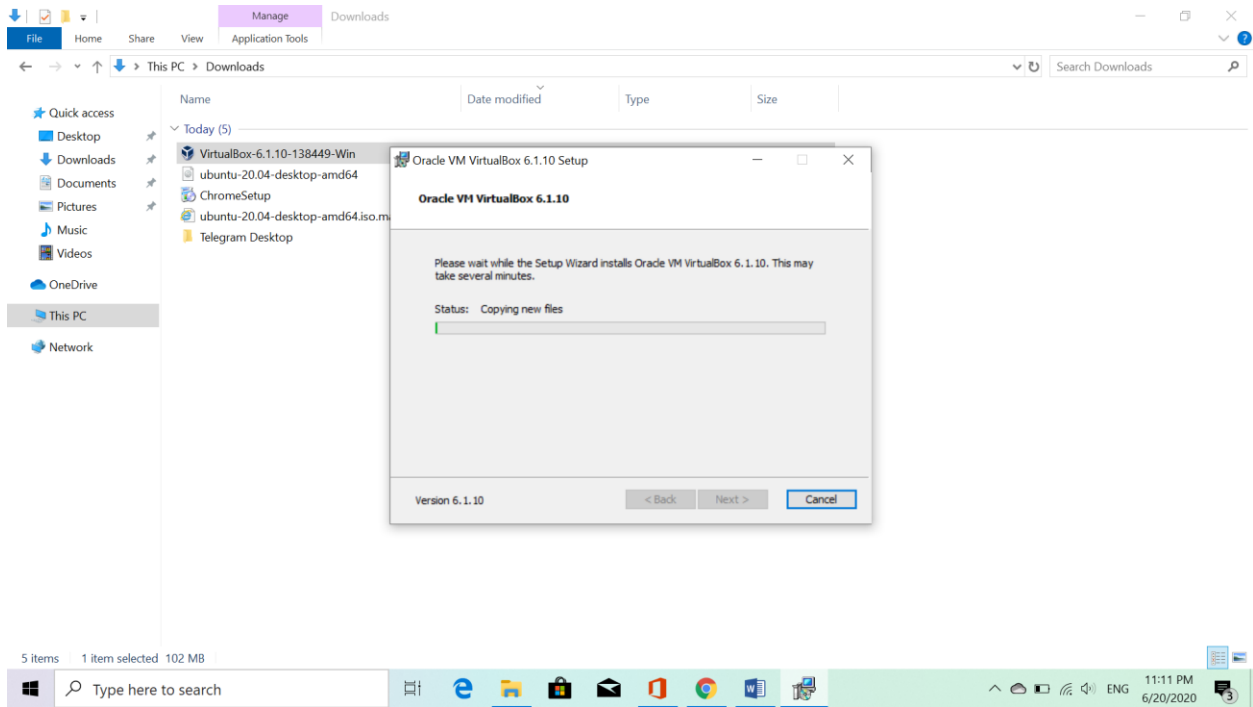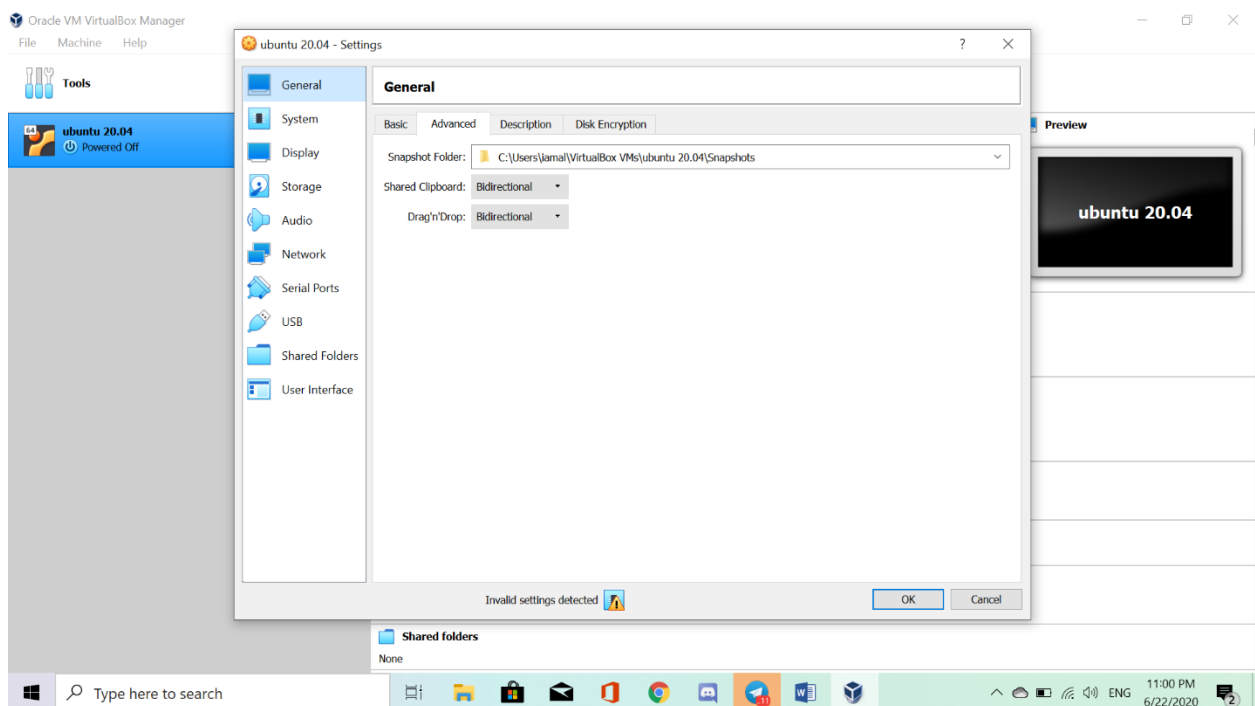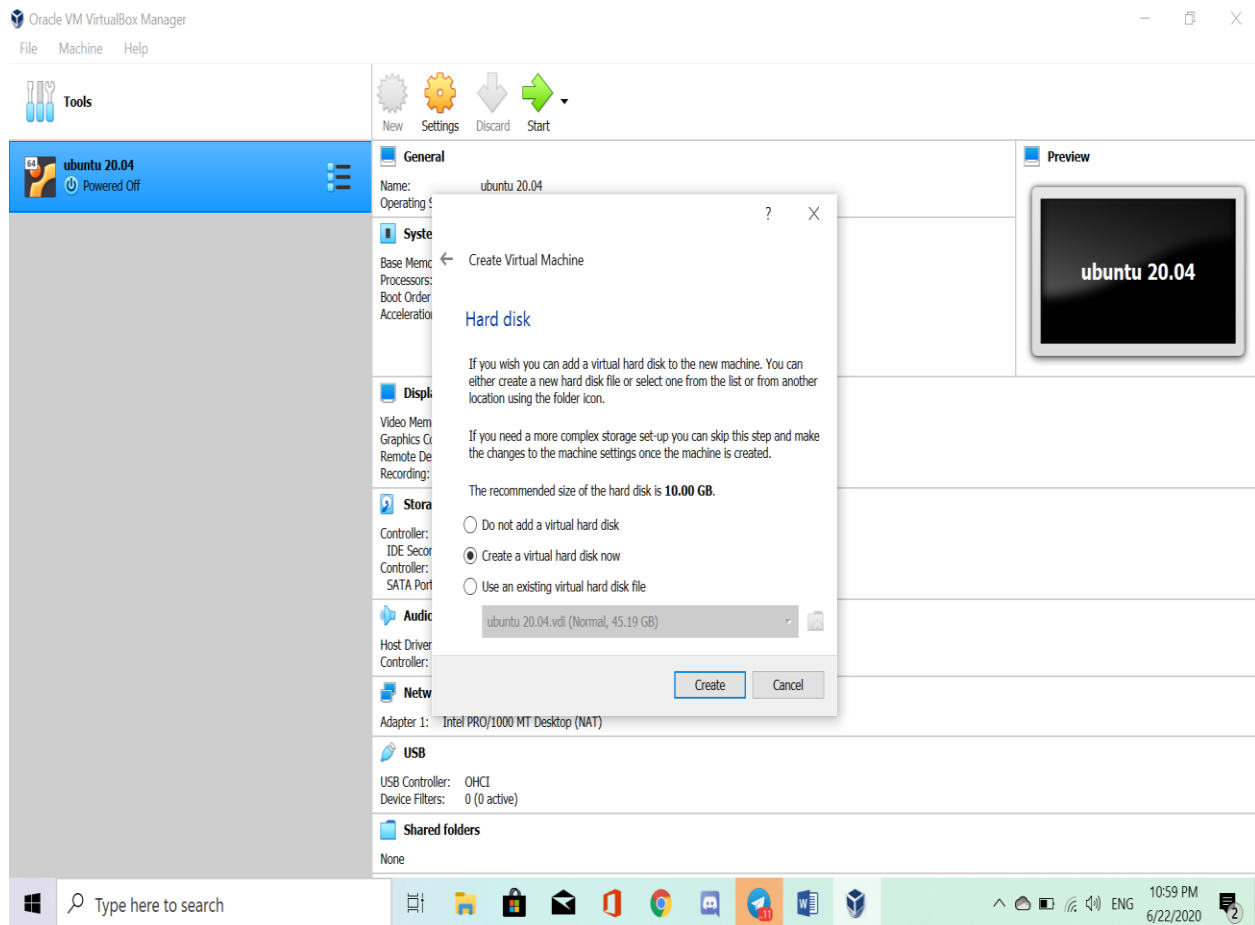
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Overview :

In this task we are going to illustrate the method of installing the Linux operating system and running the basic codes to install the raspberry pi operating system in order to complete the next steps of getting acquainted with Artificial Intelligence applications .
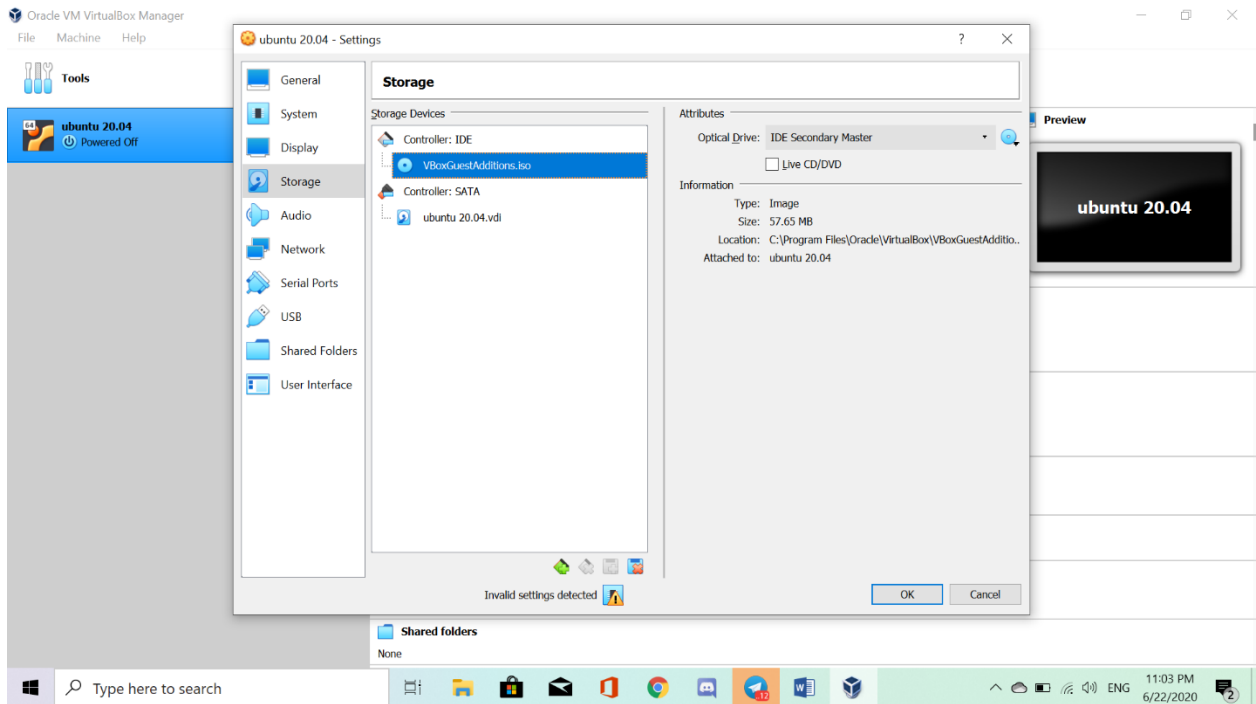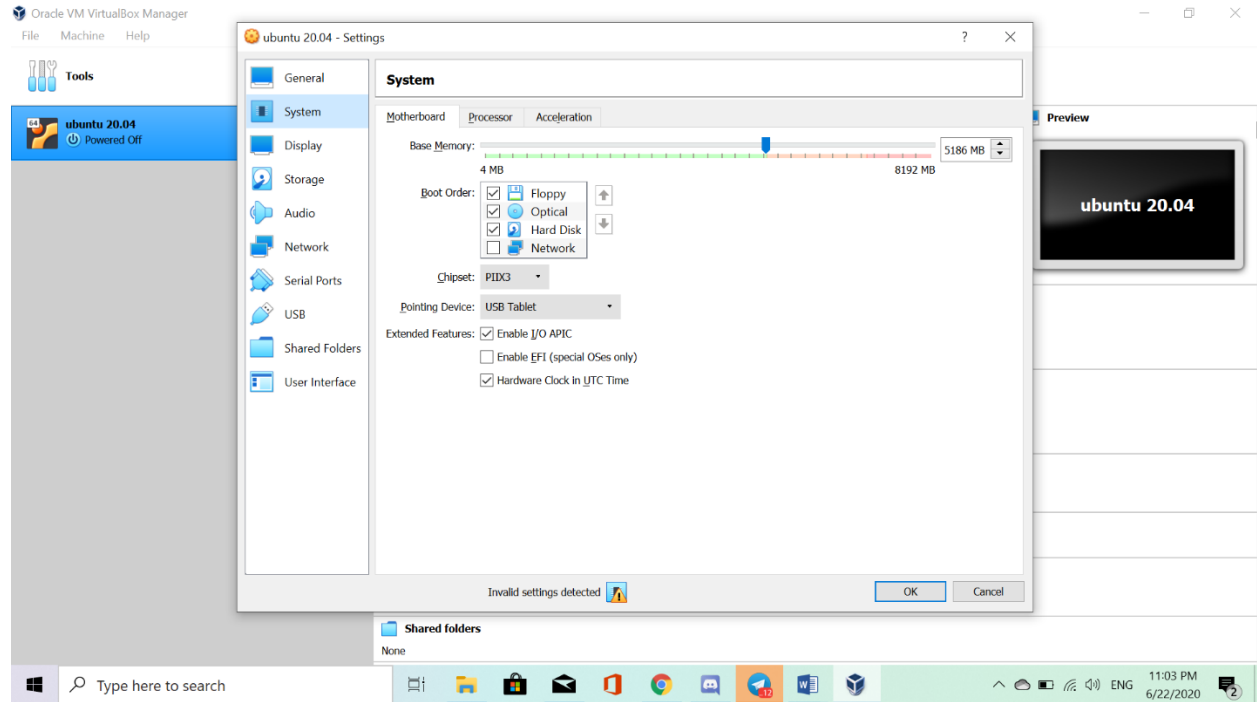
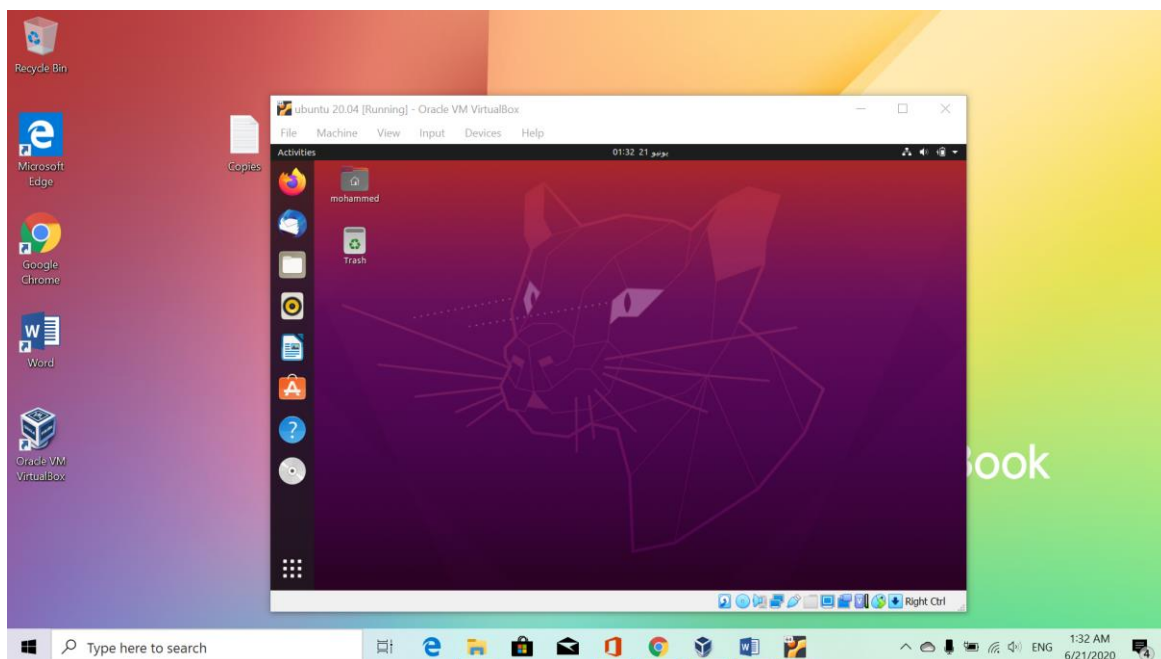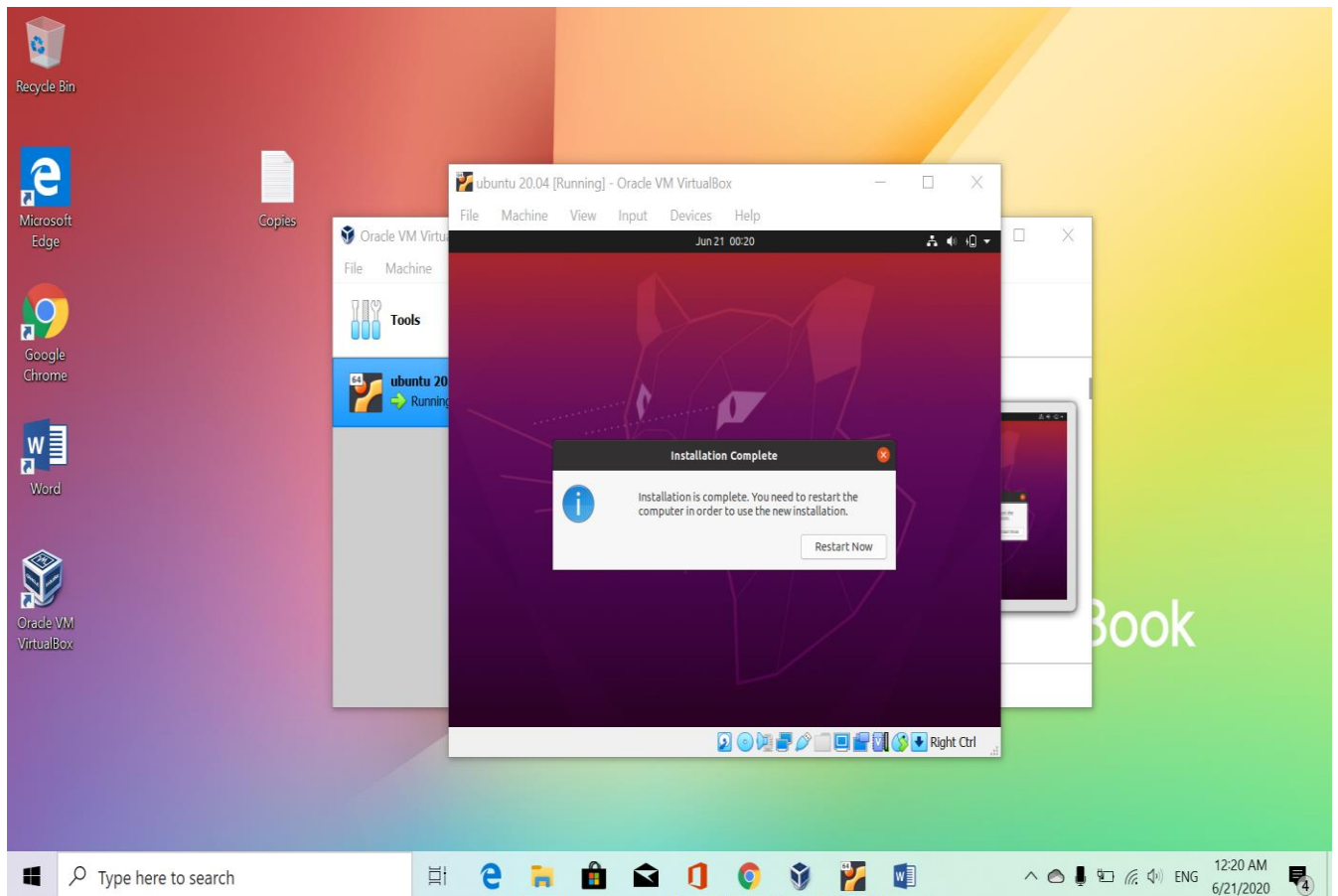First step : we'll create a virtual machine using "Oracle VM"

Next we download the Ubuntu file which is about 2.5GB and implement the following setting to the Virtual Machine .

Oracle VM VirtualBox Manager
File   Machine   Help

Tools

ubuntu 20.04
Powered Off

ubuntu 20.04 - Settings

General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface

System

Motherboard   Processor   Acceleration

Base Memory: 5186 MB
4 MB   8192 MB

Boot Order: ☑ Floppy
☑ Optical
☑ Hard Disk
☐ Network

Chipset: PIIX3

Pointing Device: USB Tablet

Extended Features: ☑ Enable I/O APIC
☐ Enable EFI (special OSes only)
☑ Hardware Clock in UTC Time

Invalid settings detected

OK   Cancel

Preview

ubuntu 20.04

Shared folders
None

Type here to search

ENG   11:03 PM
6/22/2020

Oracle VM VirtualBox Manager
File   Machine   Help

Tools

ubuntu 20.04
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ubuntu 20.04 - Settings

General
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Storage

Storage Devices

Controller: IDE
VBoxGuestAdditions.iso
Controller: SATA
ubuntu 20.04.vdi

Attributes

Optical Drive: IDE Secondary Master
☐ Live CD/DVD

Information
Type: Image
Size: 57.65 MB
Location: C:\Program Files\Oracle\VirtualBox\VBoxGuestAdditio..
Attached to: ubuntu 20.04

Invalid settings detected

OK   Cancel

Preview

ubuntu 20.04

Shared folders
None

Type here to search

ENG   11:03 PM
6/22/2020

After setting up the system with the mentioned setting , we start the
virtual operating system to start installing the ROS

We open the terminator and write the next code to install the ROS

```
wget -c
https://raw.githubusercontent.com/qboticslabs/ros_install_noetic/master/ros_install_n
oetic.sh && chmod +x ./ros_install_noetic.sh && ./ros_install_noetic.sh
```