

Ans: virtualization is a technology that allows a computer to make a new virtual O.S.

2. What is the Difference between Full Virtualization and Para Virtualization?

Ans: In virtualization we can modify our virtual pc but in paravirtualization we can not modify virtual of its guest mode.

- **Assignment level Intermediate:**

1. What is Hyper-visor?

Ans: hypervisor is a tool that allows to make virtual machine.

2. What are different hypervisors available in Linux?

Ans: xen, virtual box, VMware, opens etc.

3. What is Virtualization and what are its types?

Ans: hyperV, VMware, xen, operating system, etc.

- **Assignment level advance:**

1. Name the components that are used in VMware infrastructure

Ans: vMotion, cloud, VMware, ESX etc. .

2. What is benefits of Virtualization?

Ans: we can run different virtual machines in on operating system without formatting.

Module 4: Troubleshooting and Helpdesk

Topic: Troubleshoot security

- **Assignment level Basic:**

1. What is troubleshooting?

Ans: troubleshooting is a technique that can fix any problem in o.s, software, in drivers, any application.

2. what is the need of troubleshooting security?

Ans: you need understanding of how security works and anti security tool needed also you need knowledge that how security actually work?

- **Assignment level Intermediate:**

1. Do a practical to change the password.

Ans: done

2. Do a practical to change the user account password.

Ans: done

- **Assignment level advance:**

1. How do you troubleshoot a computer?

Ans: first I saw what's the problem than restart the computer than check hardware and software if pc doesn't start the problem is in hardware check all components and than check software issues if everything ok than I check driver and if the same problem last option is google.

2. How to troubleshoot common computer problems?

Ans: check all hardware components, software troubleshooting, drivers, O.S, settings done.

3. Your computer turns on, but still doesn't work?

Ans: check all ports and power supply if ok than change cables and laptop user change battery and adapter.

4. You get the blue screen of death?

Ans: if we got blue screen error problem in drivers, operating system, bios, ram, processor, virus, overheating etc.

Topic: OS Troubleshooting

- **Assignment level Basic:**

1. What are the basic of troubleshooting?

Ans: check all components and check software, check O.S.

2. Write down the steps of os troubleshooting.

Ans: first identify the problem, if the pc stuck at boot logo than we have to solve boot file, run in safe mode, there are many problems but if pc run in safe mode than O.S corrupted install new o.s.

- **Assignments level Advance:**

1. Do a practical to repair OS.

Ans: done

2. Do a practical to repair boot file.

Ans: done

3. 3.DO a practical to repair bootmgr.

Ans: done

- **Topic: Recovery Assignment level Basic:**

1. What is recovery?

Ans: recovery is the process of restoring data that has been lost and also fix system error missing files it restore company settings.

2 Why do we need recovery?

Ans: To restore data, fix system error, missing files, any o.s related error start up recovery can fix it.

3 **Assignment level Intermediate:**

a. list out the tools for recovery

Ans: easeus best tool recuva, Disk drill, etc..

b. DO a practical to recover deleted file

Ans: done.

c. Do a practical to recover the formatted file

Ans: done

d. Do practical to recover data from the os Corrupted file.

Ans: done

Topic: Hard Drive troubleshooting

- **Assignment level Basic:**

1. What is Hard troubleshooting?

Ans: check it drive, bipp sound, check cable, check installed driver

2. Why do we need Hard drive troubleshootin

Ans: if pc didn't detect or store data in hdd or ssd, than we need troubleshooting.

- **Assignment level Intermediate:**

1. Do a practical to troubleshoot the digging sound.

Ans: done

2. Do a practical to change the sata cable in harddrive.

Ans: done

Topic: Laptop, Printer, Video card Troubleshooting

✘ Assignments level Baic

1. What is the basic troubleshooting for printer?

Ans: install new cartridge, remove panel and prefix it, test paper, check printer light, check power, installed driver. Done.

2. What are the basic troubleshooting for laptop?

Ans: prefix battery, check adapter, prefix ram, processor, fan, cmos cell, done.

✘ Assignments level Intermediate:

1. Do a practical to disassemble the laptop and change the corrupted ram.

Ans: done

2. Do a practical to change the cartridge of the printer.

Ans: done

3. Do a practical to change the processor fan.

Ans: done

4. Do a practical to check the laptop which is not starting up

Ans: done

N+ Assignment

Module 5. Network Fundamentals and Building Networks

✘ Beginner Question

1. What is network?

2. List Common Network Components