**Pandit Deendayal Energy University, Gandhinagar**

**School of Technology**

**Department of Computer Science & Engineering**

**Cloud Computing Lab (20CP322P)**

**B. Tech. -Computer Science & Engineering (Sem-VI)**

**Lab 3 Assignment: To Install and configure VMware Workstation Pro or Oracle Virtual Box for creating Virtual Machines, cloning, and deleting VMs.**

**Aim:** Exploring VMWare Workstation Pro to create the virtual Machines

*Perform the following:*

*Week 2:*

1.Create Three or more Virtual Machine and assign resources.

2. Install two or more Guest Operating Systems on all the VMs

3. Run simple applications or programs on all the VMs.

3.a) Run a simple Python script printing even numbers in VM-1 at 5 sec interval.

3.b) Run a simple Python script printing odd numbers in VM-2 at 5 sec interval.

Optional:

4. View system configurations of each VM. Check whether it is same different from what you have created.

5. Try to send a file and draft your observation(s):

5.a) From Host OS to Guest OS and vice versa.

5.b) From one Virtual machine to another Virtual machine.

*Week 3:*



1. Cloning of Virtual Machines: Full Cloning, Linked Cloning
2. Add a USB Controller to Virtual Machine
3. Closing Virtual Machines & Exiting VMM
   1. Hard and Soft Power Off
   2. Configure Virtual Machine to Run in the Background



* 1. Pause and Un pause a Virtual Machine



* 1. Pause all Virtual Machine without interacting Workstation Pro
  2. Suspend and Resume Virtual Machines

1. Delete a Virtual Machine from the disk
2. To take snapshot of Virtual Machines

Optional Challenges:

1. Virtualize a Physical Machine
2. Enable a Template Mode for Parent Virtual Machine of Linked Clone.

