**Practical 2**

**Aim**: Creating a virtual machine using Hypervisor (VmwareWorkstation)

**Write up**-

**Virtualization** allows you to run multiple operating systems on a single physical machine. VMware Workstation is a popular Type 2 hypervisor that enables users to create and manage virtual machines (VMs).

An **ISO file** is a bootable image of an operating system. In this practical, we use the **Ubuntu Desktop ISO** file to install Linux inside a virtual machine.

This practical is useful for:

1. Learning Linux without affecting the host OS.
2. Running software in isolated environments.
3. Practicing system administration.

Requirement:

1. VMware Workstation (or VMware Workstation Player) installed on your system.
2. Ubuntu ISO file (you can download it from: <https://ubuntu.com/download/desktop>).
3. Windows ISO File <https://www.techaipost.com/download-windows-10-iso/>

**Step 1: Launch VMware Workstation**

Open VMware Workstation from the desktop/start menu.

**Step 2: Create a New Virtual Machine**

Click on **Create a New Virtual Machine**

In the wizard, choose **Typical (recommended)** and click **Next**.

**Step 3: Select the Installer Disk Image**

Choose **Installer disc image file (iso)**.

Click **Browse** and select your downloaded **Ubuntu ISO file.**

Click **Next**.

**Step 4: Guest Operating System Details**

VMware will detect Ubuntu automatically.

It may ask for easy installation info like:

* Full Name
* Username
* Password

Fill it in and click **Next**.

**Step 5: Name the Virtual Machine**

Give your VM a name (e.g., "Ubuntu\_VM").

Choose the location to save the VM files (or leave default).

Click **Next**.

**Step 6: Specify Disk Capacity**

Recommended: **20 GB or more**.

Choose **Store virtual disk as a single file** (better performance).

Click **Next**.

**Step 7: Customize Hardware (Optional)**

Click **Customize Hardware** if you want to:

* Allocate more RAM (recommended: 2GB or more).
* Set processors.
* Enable virtualization options.

Click **Close** and then **Finish**.

**Step 8: Start the Virtual Machine**

VMware will boot the Ubuntu ISO and begin installation.

If you used “Easy Install,” Ubuntu may install automatically.

**After Installation**

* Once Ubuntu is installed, you'll see the login screen.

Use the username/password you created earlier.

**Output:**

Screenshots of every step performed.