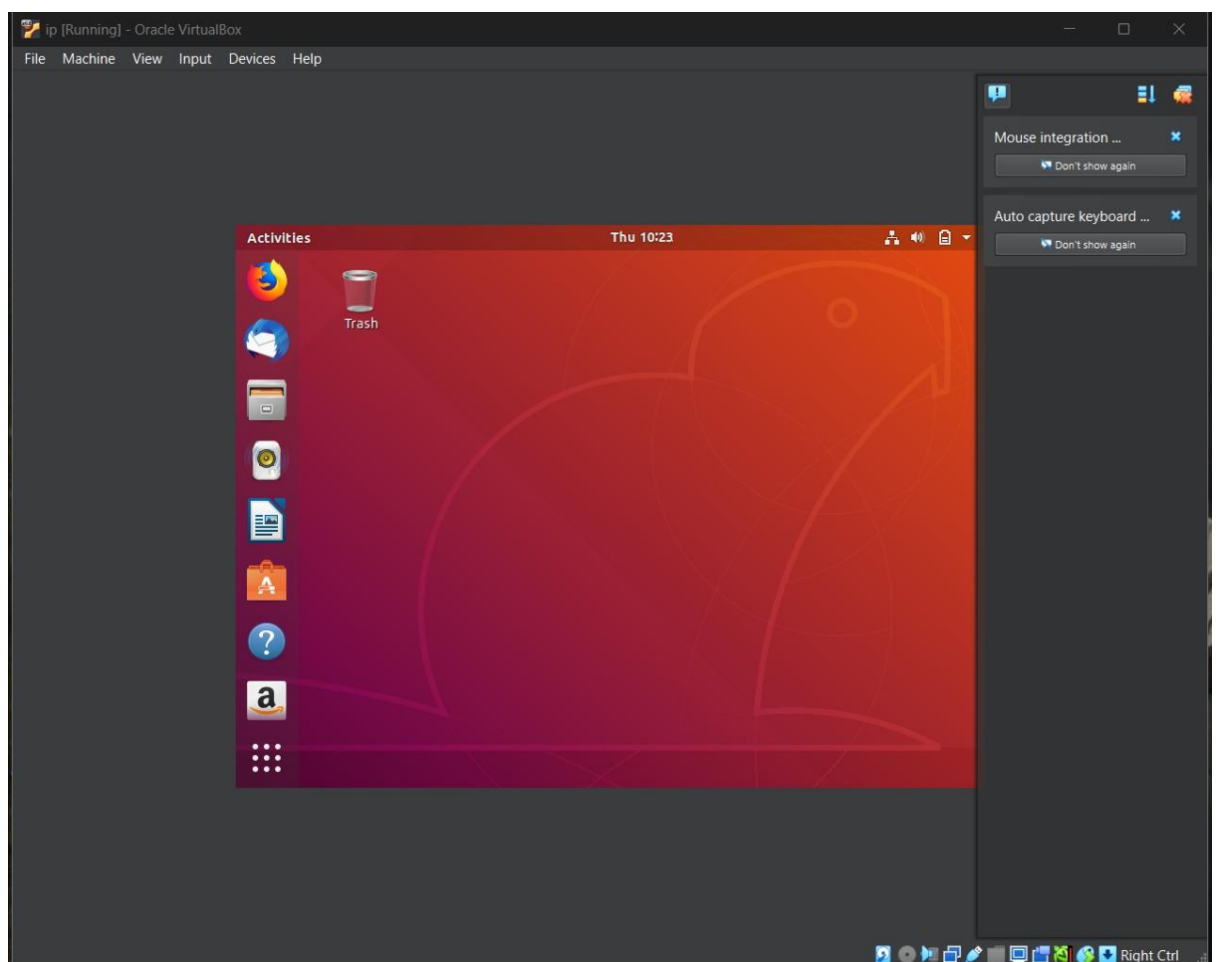# VIRTUALISATION

EXPERIMENT – 12

AIM:

To demonstrate virtualization by installing Oracle VirtualBox (Type-2 hypervisor) and creating a virtual machine with a host operating system such as Windows or Linux.

PROCEDURE:

1. Download the latest version of Oracle VirtualBox from the official website. Run the installer and follow the steps to install it on your host operating system (Windows or Linux).

2. After installation, launch VirtualBox. From the top menu, click on New to begin creating a new virtual machine.

3. In the setup window, enter the name of your virtual machine (e.g., *UbuntuVM* or *Windows10VM*), choose the type (Linux or Windows), and select the appropriate version based on the OS you are planning to install. Click Next.

4. Assign memory (RAM) to the VM — for example, 2048 MB (2 GB) for lightweight operating systems. The recommended amount is highlighted in green.

5. In the next step, choose Create a virtual hard disk now, then click Create to proceed to disk configuration.

6. Select the hard disk file type as VDI (VirtualBox Disk Image) and click Next.

7. Choose between Dynamically allocated (grows as data is written) or Fixed size (allocates full size now). Then set the virtual disk size to something like 20 GB and click Create.

8. Once the VM is created, click Settings → Storage, select the empty disk under Controller: IDE, and attach the ISO file of your guest OS by clicking the disk icon and browsing for the file.

9. Click OK, then click Start to boot the VM using the ISO. The OS installation will now begin inside the virtual environment.

10. Follow the operating system's installation steps to complete setup. After installation, restart the VM and verify that the OS runs properly.

11. Optionally, install Guest Additions from the VirtualBox menu to enable features like full-screen mode, better graphics, and shared clipboard support.

OUTPUT:

RESULT:

Thus, virtualization was successfully demonstrated using Oracle VirtualBox by creating and configuring a virtual machine with the selected host operating system.