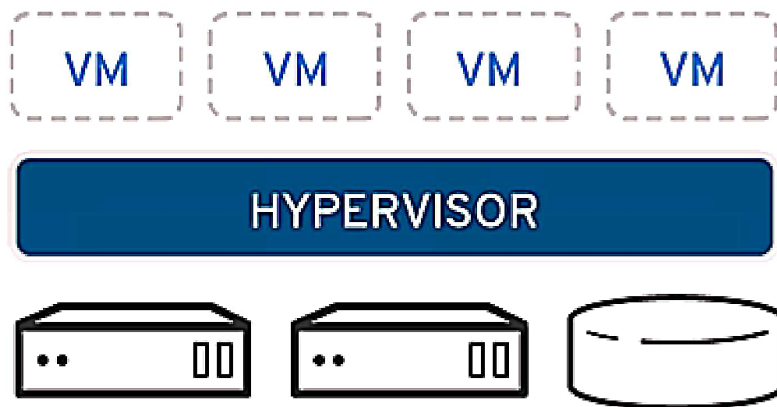**Experiment No.   4**

Aim: To study and implement virtualization through installation of Ubuntu on VirtualBox

Theory:

Virtualization is technology that you can use to create virtual representations of servers, storage, networks, and other physical machines. Virtual software mimics the functions of physical hardware to run multiple virtual machines simultaneously on a single physical machine.

Software called <u>hypervisors</u> separate the physical resources from the virtual environments—the things that need those resources. Hypervisors can sit on top of an operating system (like on a laptop) or be installed directly onto hardware (like a server), which is how most enterprises virtualize. Hypervisors take your physical resources and divide them up so that virtual environments can use them.

Types of virtualization:
- Server virtualization
- Storage virtualization
- Network virtualization
- Data virtualization
- Application virtualization
- Desktop virtualization

Steps of implementation:
1. Installation of virtual box
2. Installation of ubuntu on virtual box