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| **Batch: B1 Roll No.:16010121045**  **Experiment / assignment / tutorial No. 2**  **Grade: AA / AB / BB / BC / CC / CD /DD**  **Signature of the Staff In-charge with date** |

Experiment No: 2

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| Title: Virtualization |

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| **Aim and Objective of the Experiment:** |
| To perform VM Creation on windows and KVM on Linux Based Operating System. |

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| **COs to be achieved:** |
| **CO2:** Investigate the system virtualization and outline its role in enabling the cloud computing System model |

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| **Theory:**  **Virtualization:**  Virtualization enables the hardware resources of a single computer—processors, memory, storage and more—to be divided into multiple virtual computers, called virtual machines (VMs).  Virtualization uses software to create an abstraction layer over computer hardware that allows the hardware elements of a single computer—processors, memory, storage and more—to be divided into multiple virtual computers, commonly called virtual machines (VMs). Each VM runs its own operating system (OS) and behaves like an independent computer, even though it is running on just a portion of the actual underlying computer hardware.  Today, virtualization is a standard practice in enterprise IT architecture. It is also the technology that drives cloud computing economics. Virtualization enables cloud providers to serve users with their existing physical computer hardware; it enables cloud users to purchase only the computing resources they need when they need it, and to scale those resources cost-effectively as their workloads grow. |
| * Task (Take screenshots of all intermediate steps and paste here)   **Installing Vmbox on Windows:** |
| **Installing Kvm Windows virual machine on Ubuntu :** |

**Conclusion:** Successfully performed Virtualization by installing vmbox on windows and kvm on linux .