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| **Part A** |
| **Class B Tech CSE 4th Year Sub: Internet of Things Lab** |
| **Aim:** Raspberry Pi: To study the hardware features of the Raspberry Pi board and to install and set up the Raspbian OS (now known as Raspberry Pi OS) for initial configuration and operation. |
| **Prerequisite:** Basic Electronics |
| **Outcome:** Hands-on experience with Raspberry Pi hardware and will be capable of installing and configuring the Raspbian OS for various projects. |

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| **Part B** |
| **Steps:** |
| **Output:** |
| **Observation & Learning:**  The Raspberry Pi board includes various I/O ports, including USB, HDMI, and GPIO pins. Raspbian OS installation was straightforward, involving downloading, writing to a microSD card, and configuring initial settings. |
| **Conclusion:**  The practical session provided essential hands-on experience with Raspberry Pi hardware and OS setup. After completing the installation, users are equipped to configure Raspbian OS and utilize the board for diverse projects. |