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| **Part A** |
| **Class B Tech CSE 4th Year Sub: Internet of Things Lab** |
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| **Prerequisite:** Basics of programming, microcontrollers and basic electronics |
| **Outcome:**   1. Study and work of LCD. 2. Connecting microcontroller board with LCD. 3. Display of sensor data over the 16X2 LCD. |
| **Theory:**   1. **Study and work of LCD.** 2. **Connection of 16X2 LCD with Arduino and ESP 32 microcontroller boards.** 3. **Display the values sensed by various sensors, such as ultrasonic sensors, photosensitive resistance, and potentiometers.** 4. **Use a DHT sensor to display the temperature and humidity of the atmosphere.** |
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| **Part B (Write for an individual)** |
| **Steps:** Write the procedure here. |
| **Output:** Paste the circuit diagram and other images. |
| **Observation & Learning:** Give your observation and learning about the experiment. |
| **Conclusion:** Give your conclusion for the experiment. |