

**BHARATI VIDYAPEETH (DEEMED TO BE) UNIVERSITY
COLLEGE OF ENGINEERING,PUNE.**



DEPARTMENT OF INFORMATION TECHNOLOGY.

**SUBJECT:-MICROPROCESSOR & MICROCONTROLLER
[PROJECT BASED LEARNING]**

SUBMITTED TO :- PROF. PRAKASH DEVALE SIR



TOPIC: Water Level Indicator.

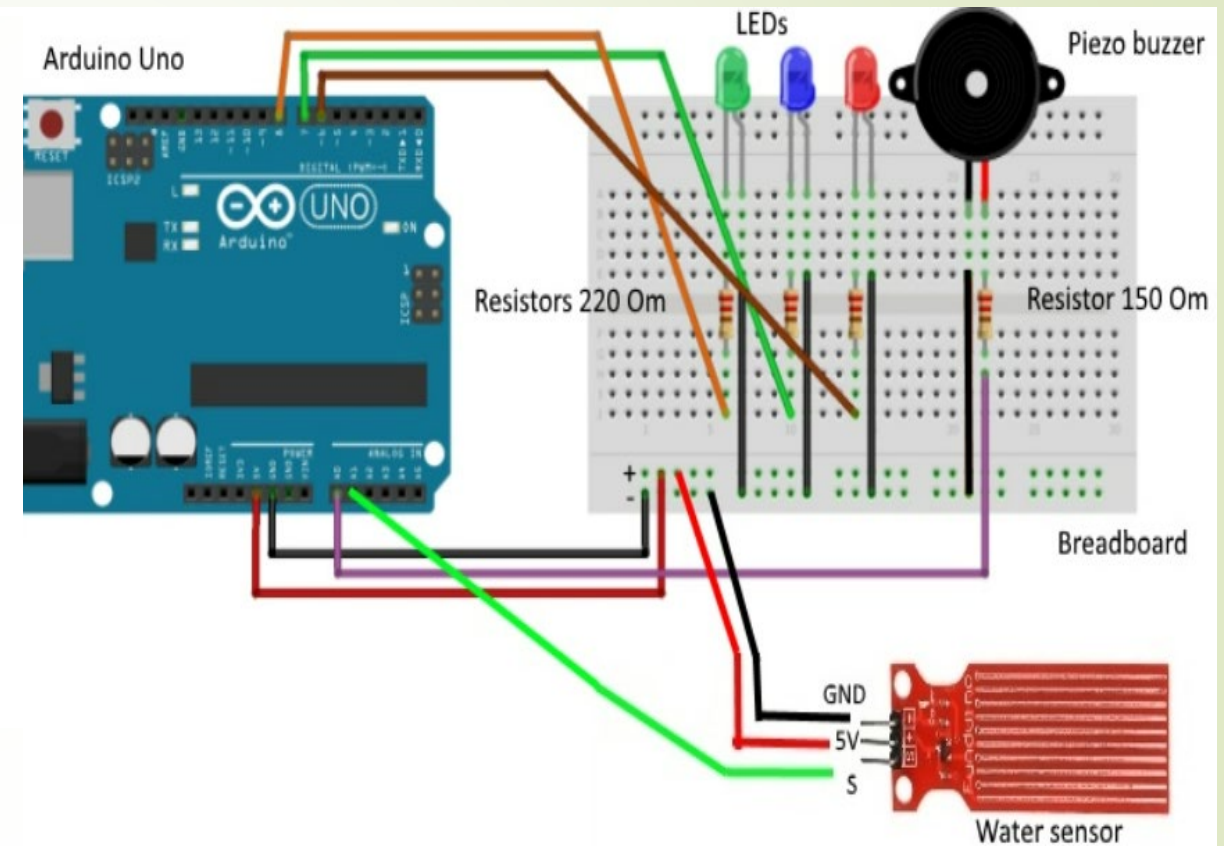
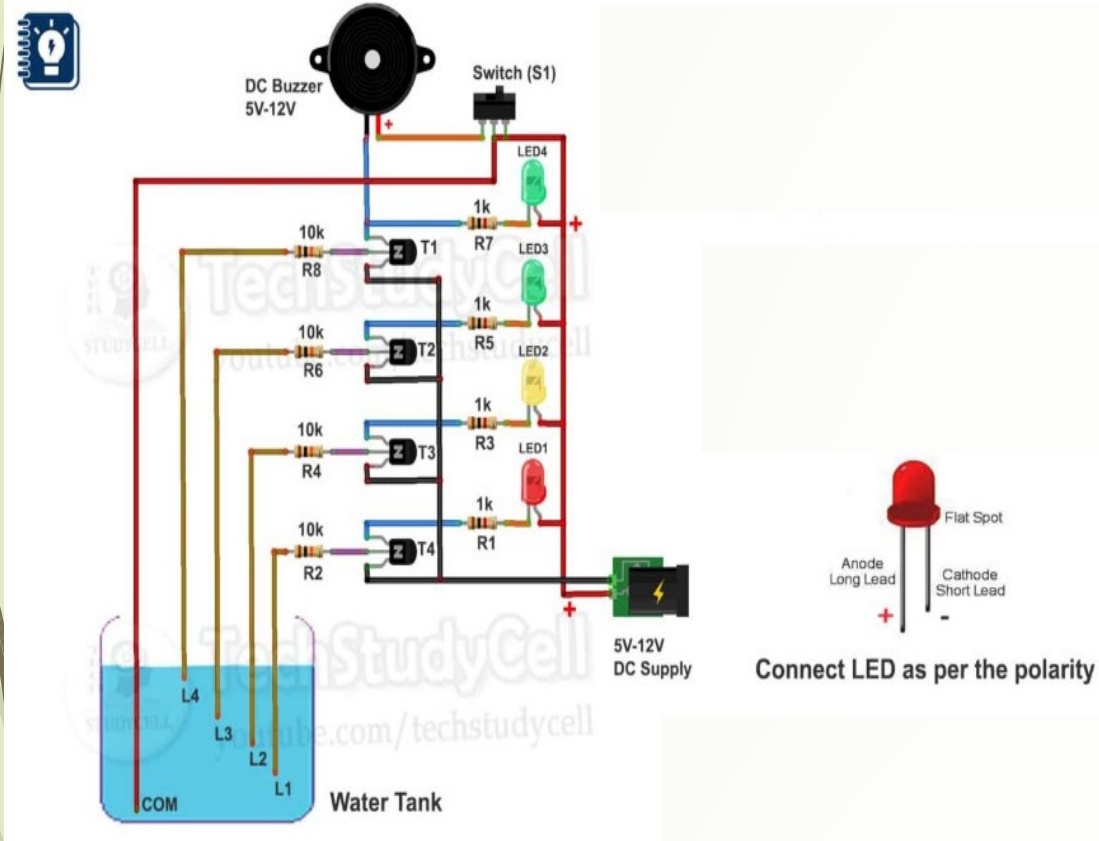
TEAM MEMBERS:-

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Components needed:

- 1. Arduino Uno:** The central control unit of the project.
- 2. LEDs:** To visually indicate the water level status.
- 3. Buzzer:** To provide an audible alarm when a certain water level is reached.
- 4. Resistors:** To limit current to the LEDs and possibly the sensors, depending on the design. Typically, 220-ohm resistors are used for LEDs.
- 5. Water Level Sensor:** It could be a capacitive sensor for contact measurement.
- 6. Jumper Wires:** For connections.
- 7. Breadboard:** Useful for prototyping without soldering.

Demonstration:





Applications:

- Water level indicators are widely used across various sectors for monitoring and controlling water levels in different environments. Their applications span from simple household uses to complex industrial and environmental management systems. Here are some of the key applications:

- 1. Household Water Tanks**
- 2. Agriculture**
- 3. Industrial Applications**
- 4. Municipal Water Supply**
- 5. Aquariums and Aquaculture**
- 6. Swimming Pools and Water Parks**



THANK YOU!

PBL TOPIC: Water Level Indicator.