HELLO
AND
WELCOME TO OUR
PRESENTATION

PRESENTED BY

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WE ARE PRESENTING ON WATER LEVEL INDICATOR WITH ALARM !!

INTRODUCTION

The **water level alarm** circuit is a simple mechanism to detect and indicate the **level** of **water** in the overhead **tank** and also in the other containers.

The sensing is done by sets of **three probes** which are sets at **three different levels** on the tank walls .

COMPONENTS

- Transistors BC547
- 150Ω Resistor
- Buzzers/LED
- 9V supply
- Bread Board
- LED’s (Different Colors)
- Connecting Wires

BRIEF NOTES OF SOME OF THE COMPONENTS WE USE

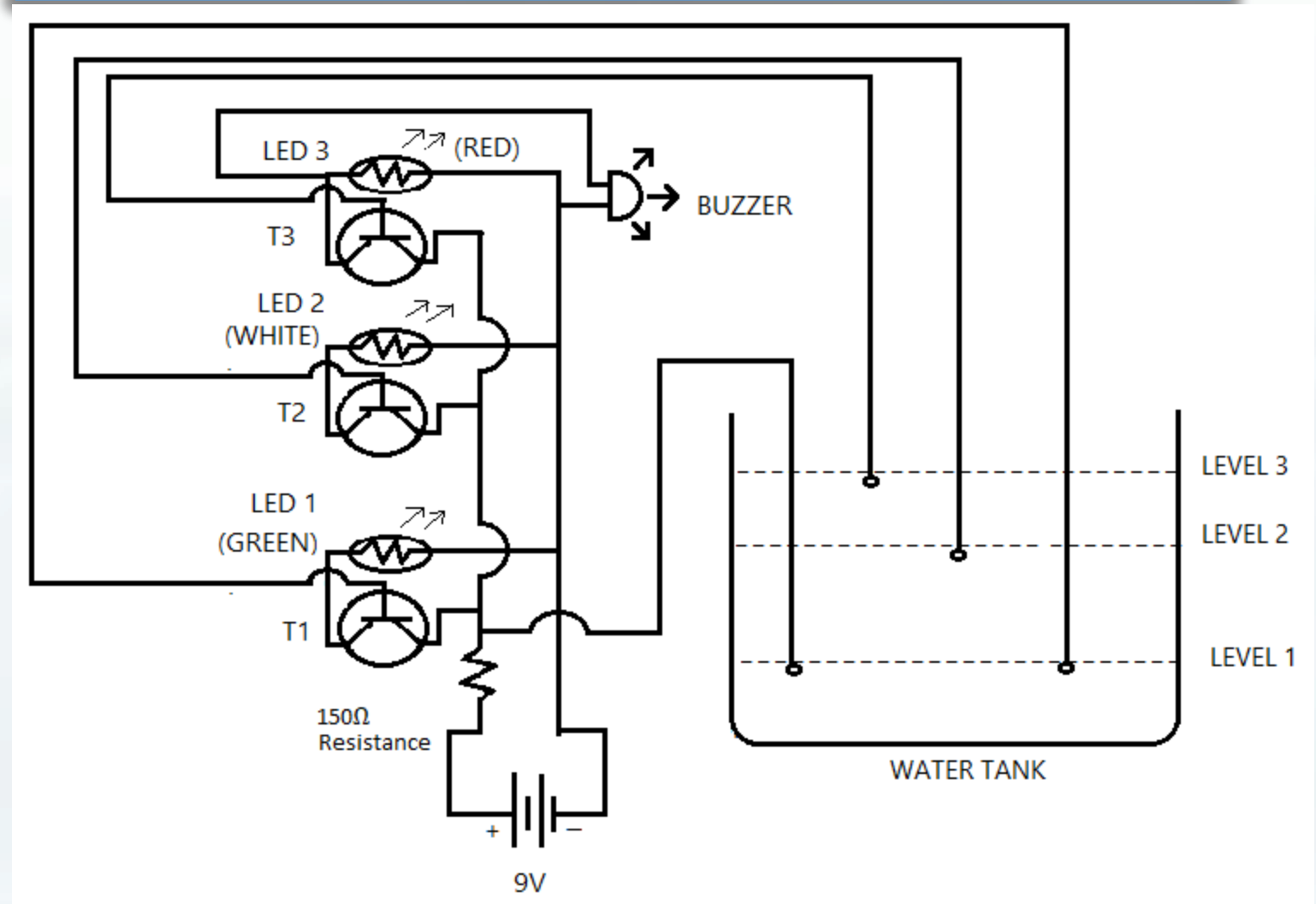
- **BREAD BOARD** :A board for making an experimental model of an electric circuit.

- **TRANSISTOR**: In this circuit we use BC547 transistor , which is very common emitter NPN transistor and its basically used for the amplification and switching purpose .

- **BUZZER** :It produces sound actual use for the alarm circuit.

- **LED** :A LED is a two lead semiconductor light source , is a p-n junction diode , emits light when activated

CIRCUIT DIAGRAM



WORKING PRINCIPLE

- The operation of the project is very simple and can be understood very easily. In our project “ Water level indicator” there are three main conditions:
- There is no water or very less water available in the source tank. Intermediate level.
- There is ample amount of water available in the source tank or about to overflow.
- So let us discuss on the more about these three condition.

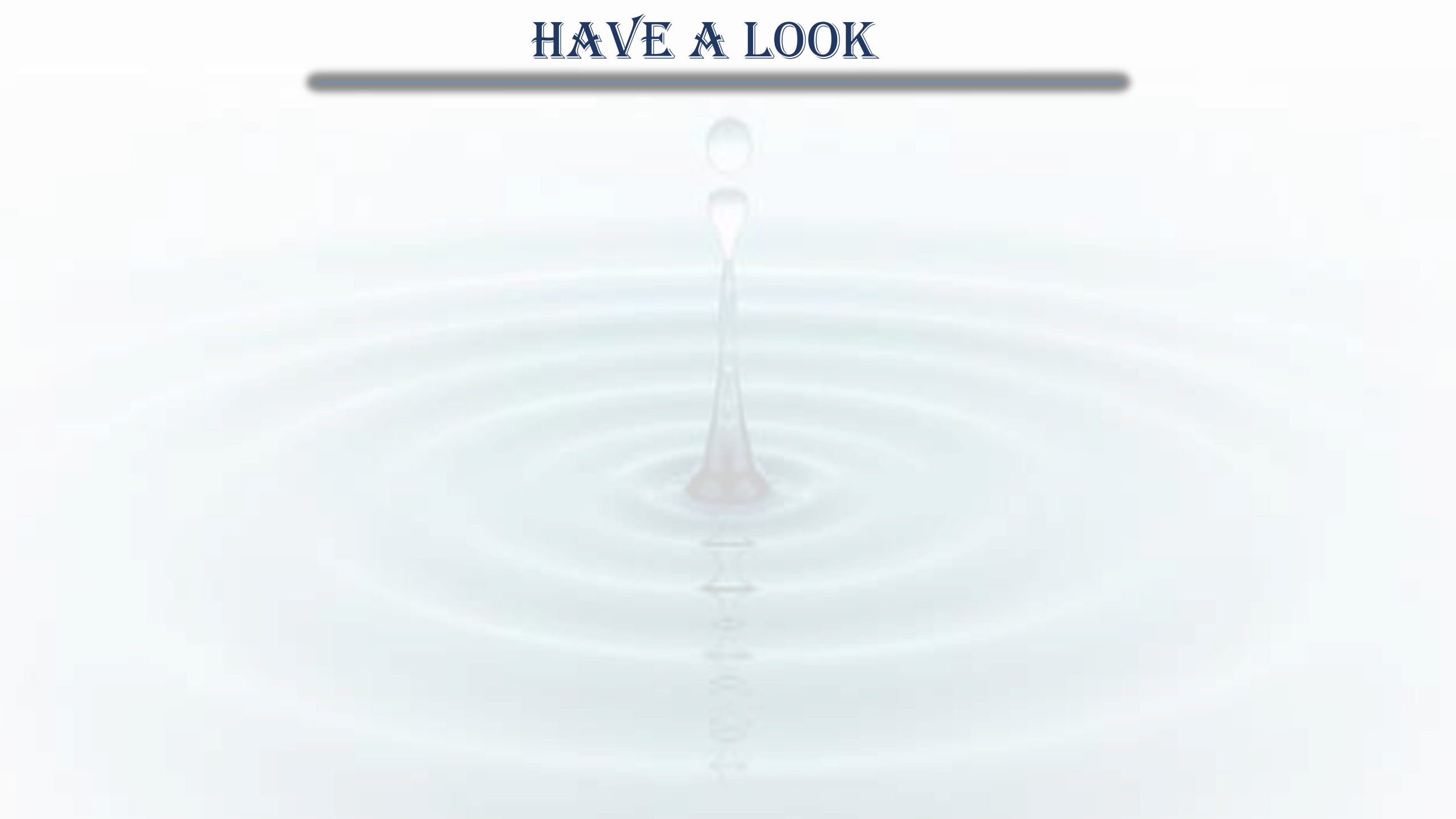
WORKING PRINCIPLE

- After establishing the the required connection as shown in the circuit diagram , we place the other ends of the three wires which are connected to the base of the three transistors into a bowl at three different levels of height.
- Suppose wire 1 is at a lower height.
- Wire 2 is at a medium height.
- Wire 3 is at a height from which water is supposed to overflow.

WORKING PRINCIPLE

- As we start pouring water into the bowl, the water level touches the first (wire 1) which is at a lower height and the circuit gets completed and currents starts flowing and the first LED (D1) glows.
- Gradually, as the level of water goes on increasing the other two LEDs
- (D2 and D3 glows) indicating that the water has reached to maximum height.
- As the water level crosses the maximum limit, the buzzer starts beeping and thus sends an alarm so that we can stop the supply of the water.
- Thus, this simple circuit depicts how a simple water level indicator help us in preventing the flow of water and further help us in reducing the wastage of water and power.
- So, it turns us to be very useful appliance which can used.

HAVE A LOOK



ADVANTAGES

- Power Saver
- Money Saver
- Automatic
- Preventing wastage of water
- Reliable Electronic design
- Easy Installation with LED monitoring

DISADVANTAGES

- Water level controls need to be replaced every 3 years.
- The rust, foul and deteriorate
- Most float switches are outdated
- Unable to handle the high power

APPLICATIONS AND IT'S USES

- Water tank level control
- Automatically turn ON/OFF pumps
- Can be used in factories, commercial complexes, apartments, home
- Fuel tank level gauging
- Oil tank level control
- Stream level monitoring
- Tsunami warning and sea level monitoring and many more.

TO SUM UP,

This is a simple model **water level indicator** which can be made at your home.
This project is the solution to help the user to indicate **water level** in reservoir or into the **water** tank that indicated different **levels** in an over head tank.

Finally the project has been successfully implemented and tested , the project gave us more confidence that we will be able to put it in a practice.

Remember,

“Technology is not just a tool , it can give learners a voice that they may not have had before”

Thank you all,
That's all for now ,any questions?