BAHRIA UNIVERSITY ISLAMABAD

A

PROJECT REPORT

ON:

"SIMPLE FIRE ALARM"

FOR THE COURSE OF:

"APPLIED PHYSICS LAB"

SUBMITTED BY:

"ABDUL AHAD MEHMOOD"

"SHEHRYAR MUGHAL"

GUIDED BY AND SUBMITTED TO:

"MADAM KAINAT NAZIR"

ENROLLMENT NUMBER:

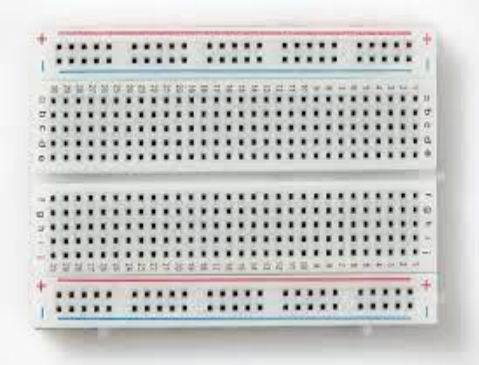
"01-135221-001"

CONTENTS

INTRODUCTION:

In this experiment, we will create or make a short Electric Circuit that can detect the fire around it. It will be called the simple fire alarm. When we will bring the fire near it, it will start buzzing.

IMAGES:



OBJECTIVES:

From this experiment, we can easily make the Simple fire Alarm with the help of all the equipment. It will easily detect the fire around it whenever we will apply fire to the thermistor it will start up the buzzing and it will indicate that there is fire around.

EXPERIMENTAL TOOLS:

- **Bread Board**
- **One Integrated Circuit**
- **Potentiometer**
- **Connecting wires**
- **Battery**
- **Buzzer**
- **Thermistor**
- **Resistor**
- **Lighter for Fire**

PROCEDURE:

1. First, take the breadboard in a parallel direction. And note the Positive position and the Negative position marked on the breadboard.
2. Then attach the Integrated Circuit to one end on the upper side and the second side on the lower side. From this, we can attach the IC to the board.
3. Then on the same side of the IC connect the Buzzer in the direction of the horizontal settings.
4. After that connect the connecting wires from the positive and the negative perspective in the direction of the series. One side with the upper and one with the lower. It will form the complete circuit.

5. Completing the process of connecting the wire Connect the Resistor one end with the main negative supply of battery and one end of the upper set of the connecting wire.
6. One of the main things is the Thermistor which can detect the Fire and give a signal to the buzzer that starts buzzing.
7. Connect all the given things in the series and for the supply take one battery with the terminal connector.
8. Connect one end of the battery with the positive and the second end with the other negative side.
9. At last, we will take the lighter and start blowing the lighter on the thermistor. Whenever we will apply the fire and the battery is turned ON it will give a signal to the Buzzer and it will start Buzzerning.
10. From this experiment we can create the Simple Alarm System.

RESULTS:

From the following procedure, we can easily make the Simple Fire Alarm That can work very efficiently when we apply the fire around the thermistor it will give us the buzzing at louder voice using Resistors, IC, Potentiometer, Thermistors.