



CIRCUIT SHIELD

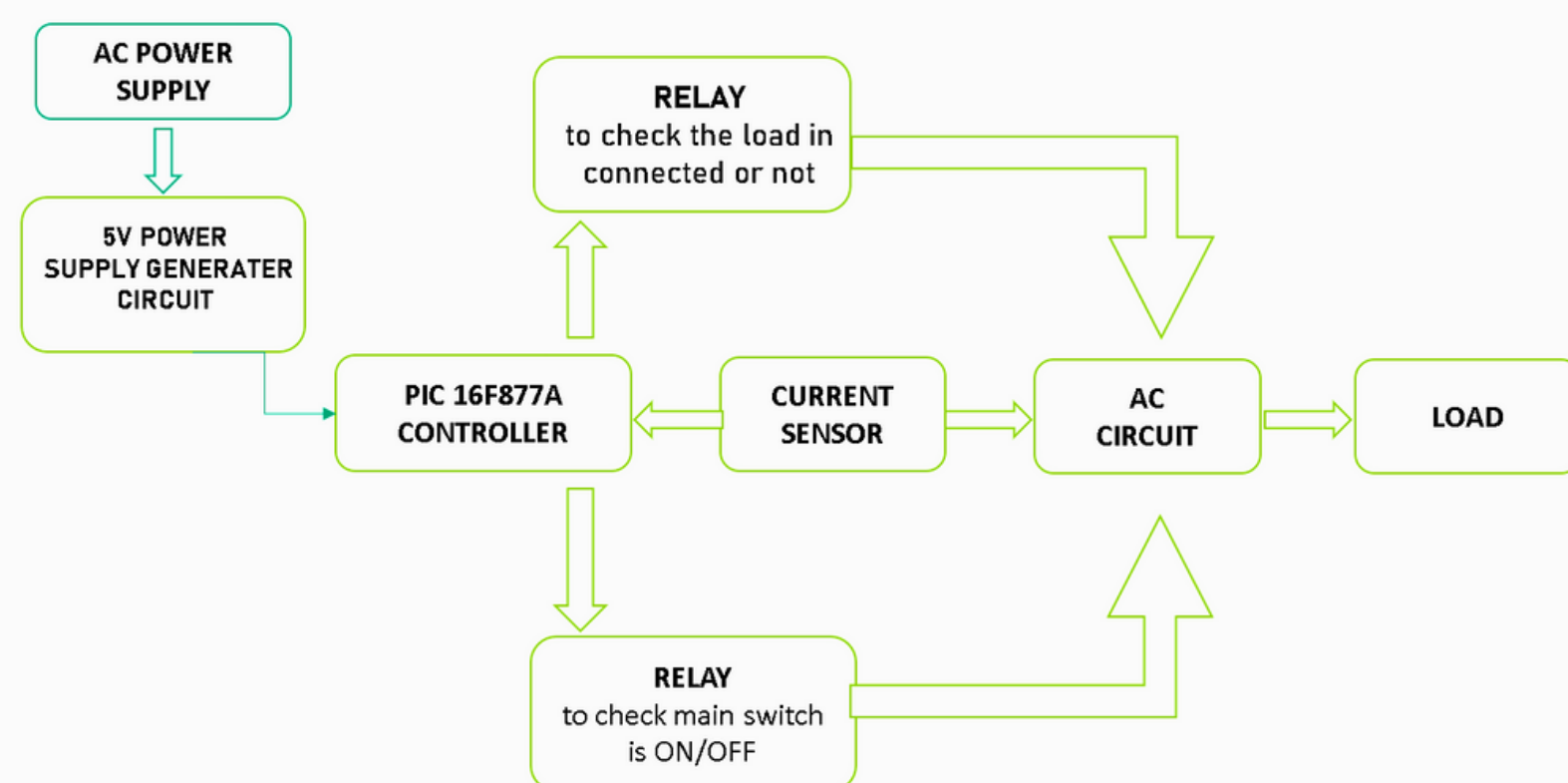
Aim: To design a damage control and safety measurement live wire circuit using automatic switch

Objective:

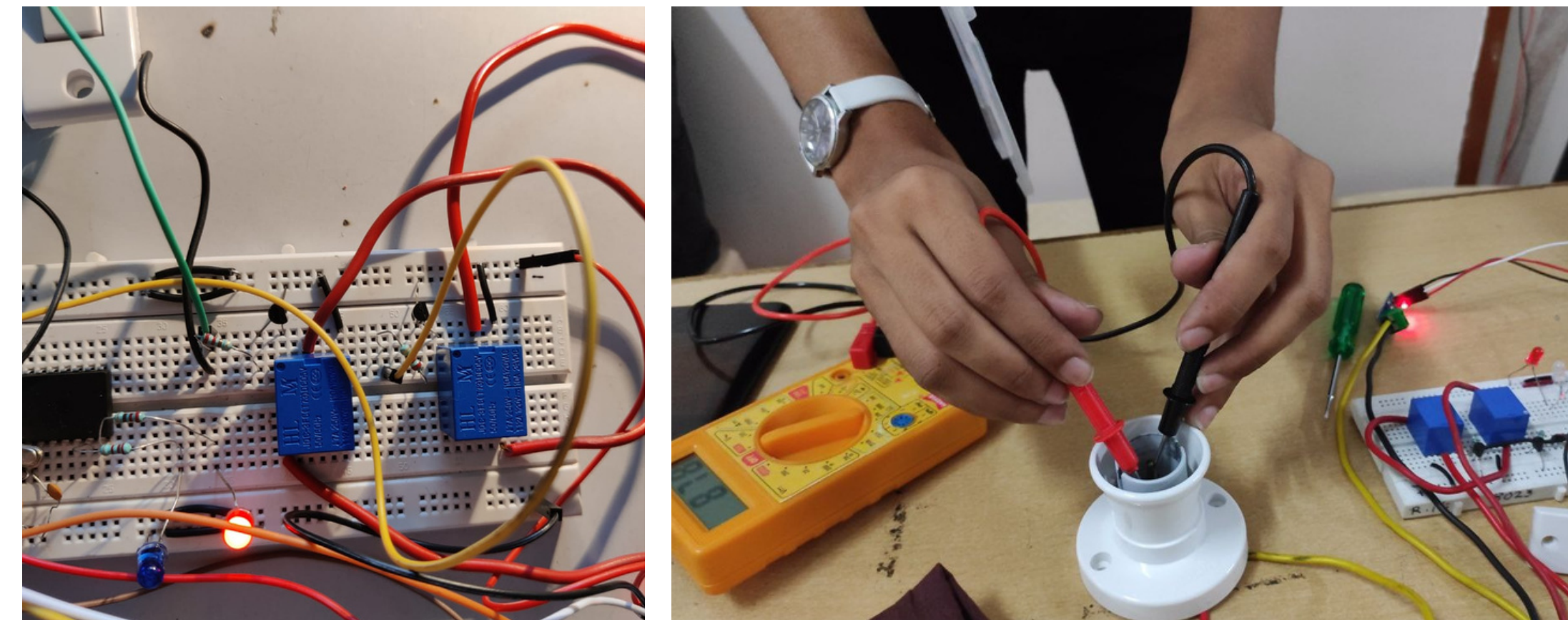
- 1] To focused on **household loads and their handling**.
- 2] To give the **safety** measure for **human being**.
- 3] To detect **faulty load**.
- 4] To avoid shock from **moisture around the switch area**.

Methodology:-

uThe **automatic switch** will be designed to detect the absence of a load in the circuit and instantly reduce the voltage at the terminals, thereby reducing the risk of injury or damage.



Results:



Application:

- 1)In households, the module can be used in appliances such as **electric bulbs, irons, and extension boards, improving their safety and reliability**.
- 3)The module can also be used to diagnose problems in systems that are not functioning properly, such as street lamp posts.

Conclusion:

- This project aims to address a crucial issue of electrical safety by cutting down the high voltage at the terminals when the load is not connected.
- The proposed solution is an **automatic switch** as a relay placed in the circuit, has the ability to make **working with household AC power supplies safer**.