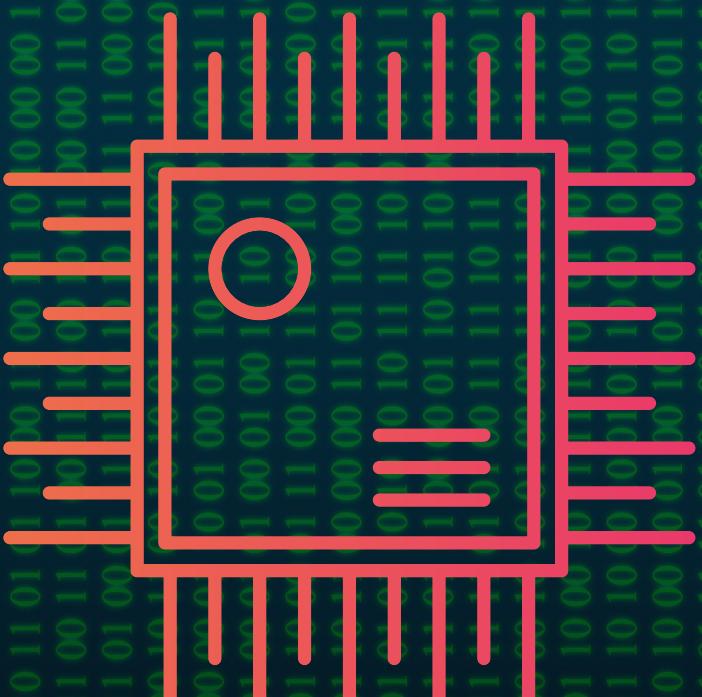


WEEK 8

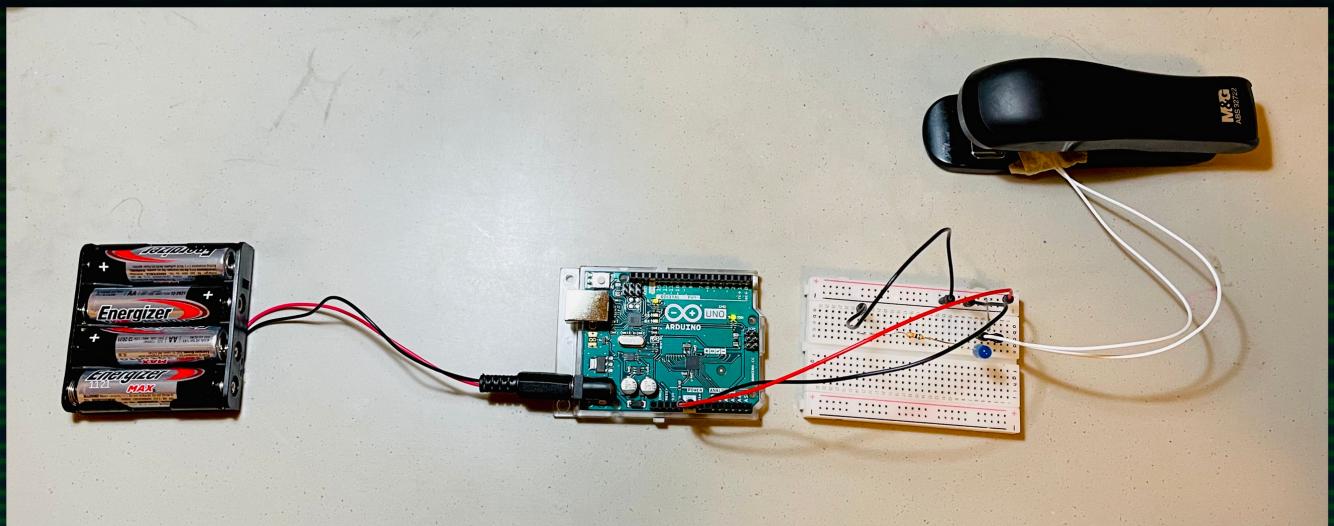
DOCUMENTATION

ARDUINO SWITCH

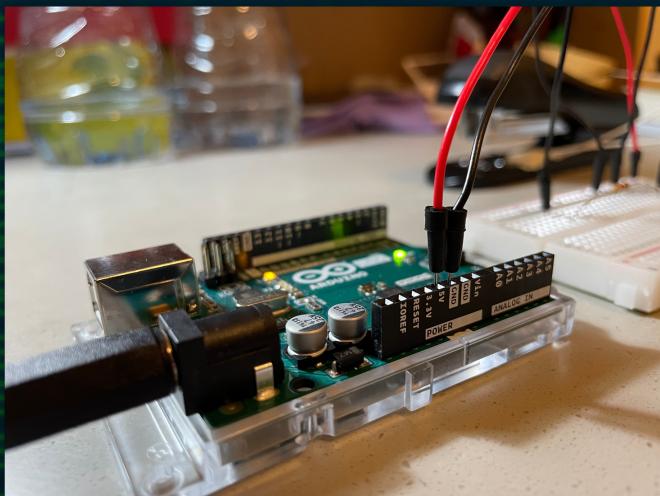


SYED FAHAD RIZWAN

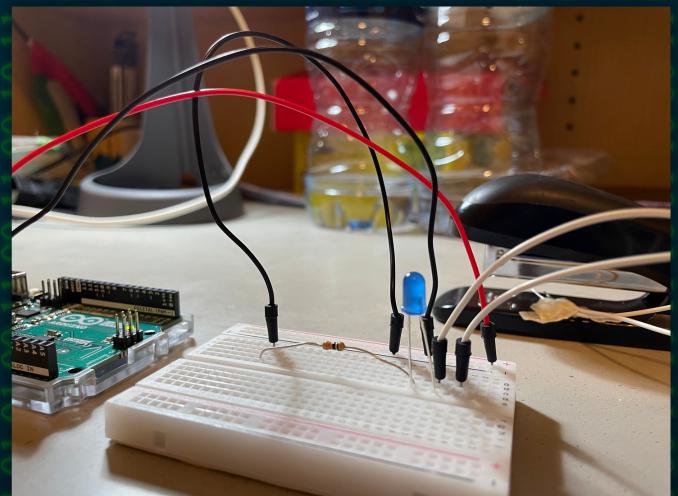
IDEA AND STRUCTURE



Attempting to create a no-contact creative switch, I was driven to my **stapler** to create a stimulus based LED response, informing the user if their method is correct, helping **children or beginners learn how to use a stapler**. The LED glows upon each successful press.



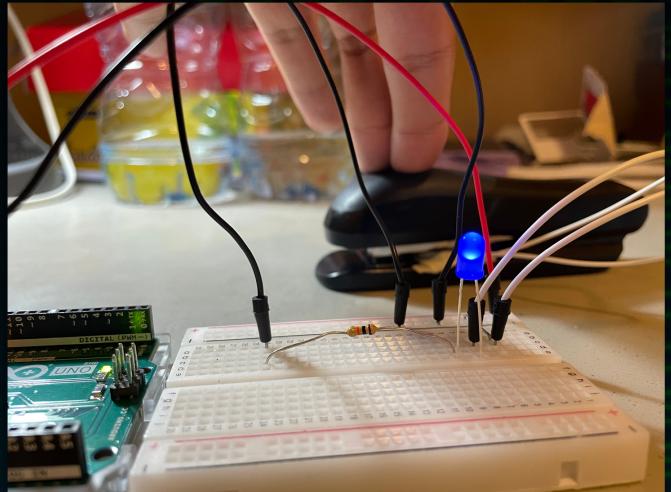
Connected to the battery supply, containing two wires connected to the **5V** and **GND** port, this is my Arduino.



My **breadboard** contains wires from the Arduino, the LED, a resistor to regulate the current, and a stapler pin as an alternative to wires.



The stapler contains two white wires that touch its metallic part once touched.



The blue LED glows once the wire and stapler surfaces come into contact.

CHALLENGES/SOLUTIONS

Finding a no-contact method. However, I realized that there'll almost always be indirect human intervention apart from the LDRs present in street lamps. Therefore, while my skin never directly touches the wire, it's still vital in using the stapler, triggering the desired response: **blue LED glowing**. Figuring out the breadboard and its configurations took a while; however, it is quite straightforward.

Excited to see how our journey progresses forward.