

# Finger print lock system

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## COMPONENTS:

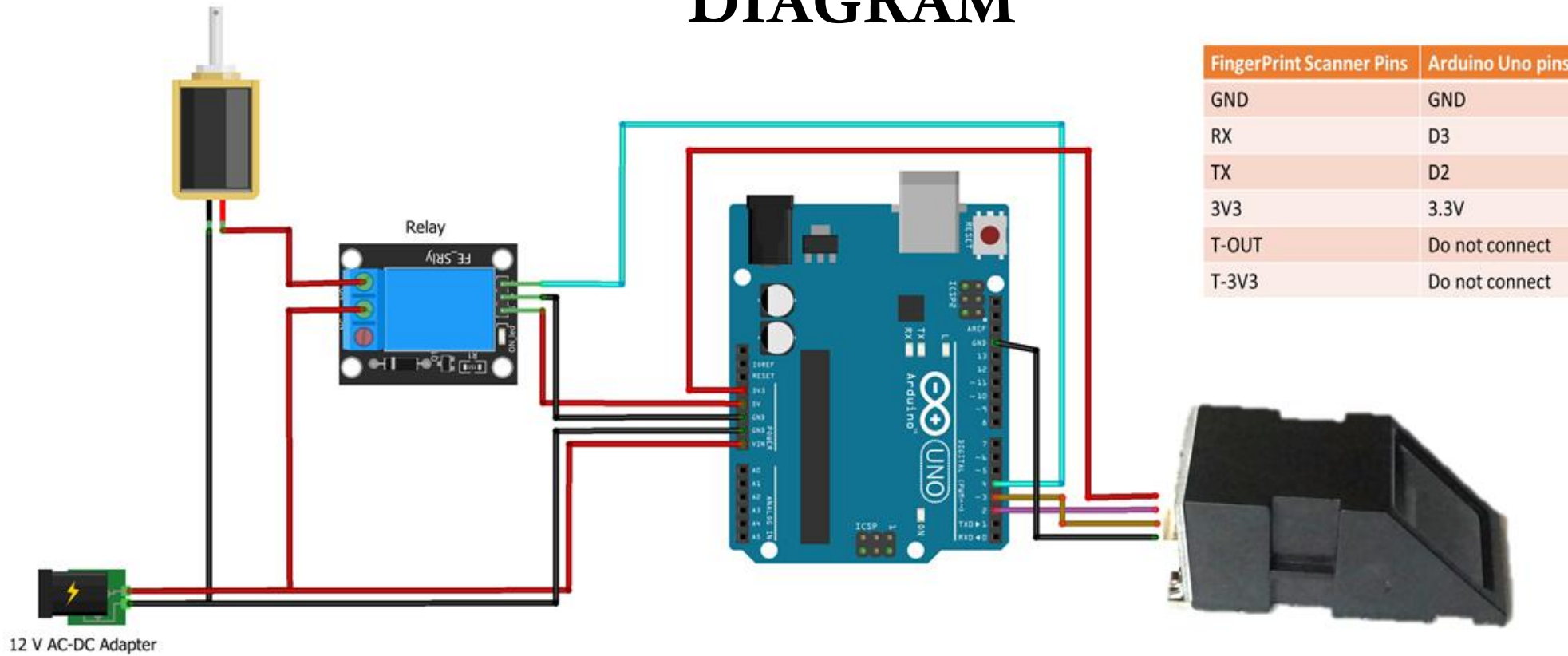
- Arduino Uno
- Finger Print Scanner (FPM10A DY50)
- 5V relay
- Solenoid 12V lock
- 12 V battery/ 12 V AC Dc
- Jumper wires
- Laptop

# USES/FEATURES:

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- Safe and secure
- Home and office purposes
- Adafruit fingerprint sensor is used
- Can store up to 50 fingerprints
- More efficient
- Unlocks if fingerprint matches
- Each fingerprint has an unique id
- Operates on rechargeable battery

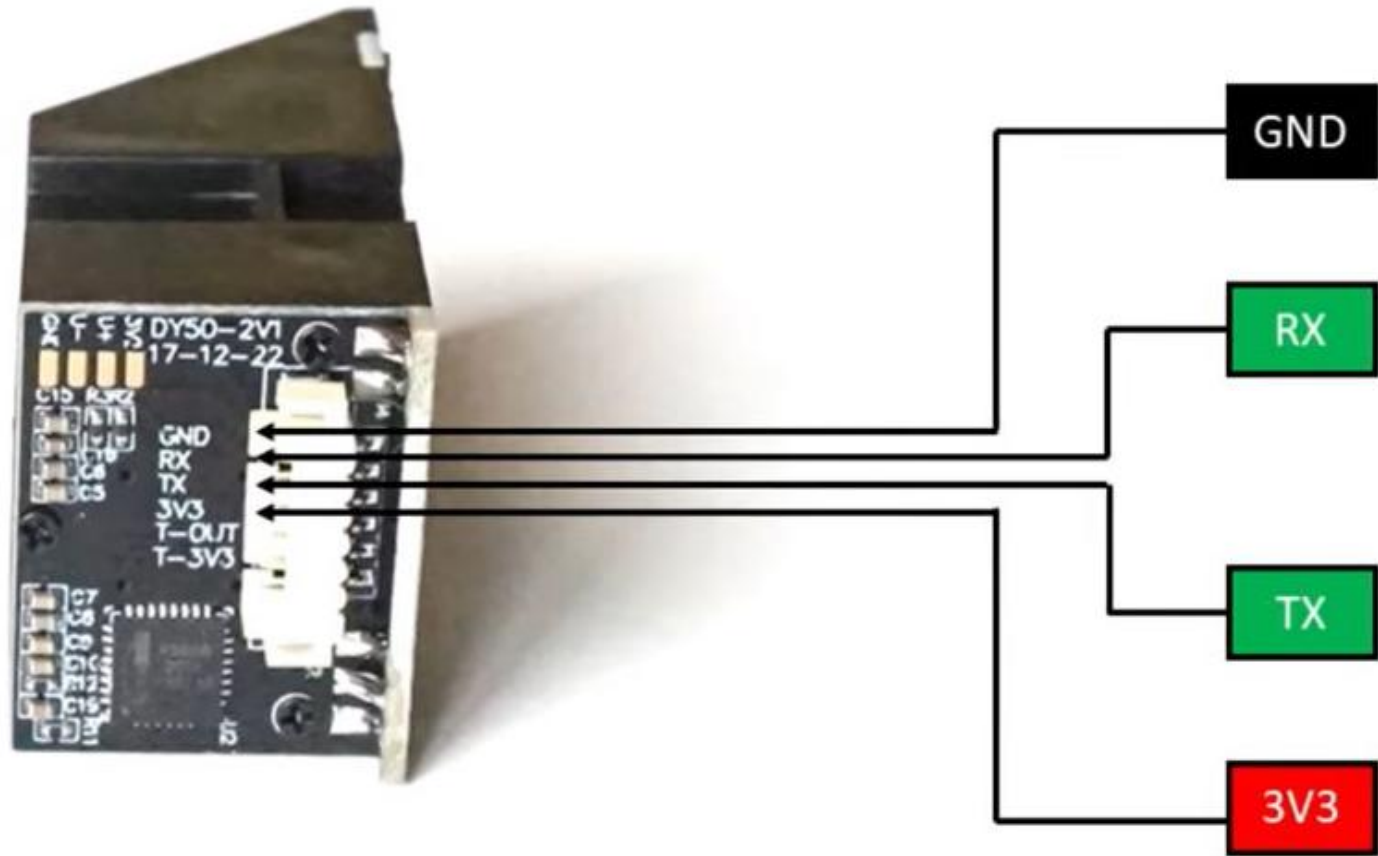
# CIRCUIT DIAGRAM





**FPM 10A**





➤ GND

- Common ground

➤ RX

- Receive pin

➤ TX

- Transmit pin

➤ 3.3V

- Provides 3.3V to module circuit



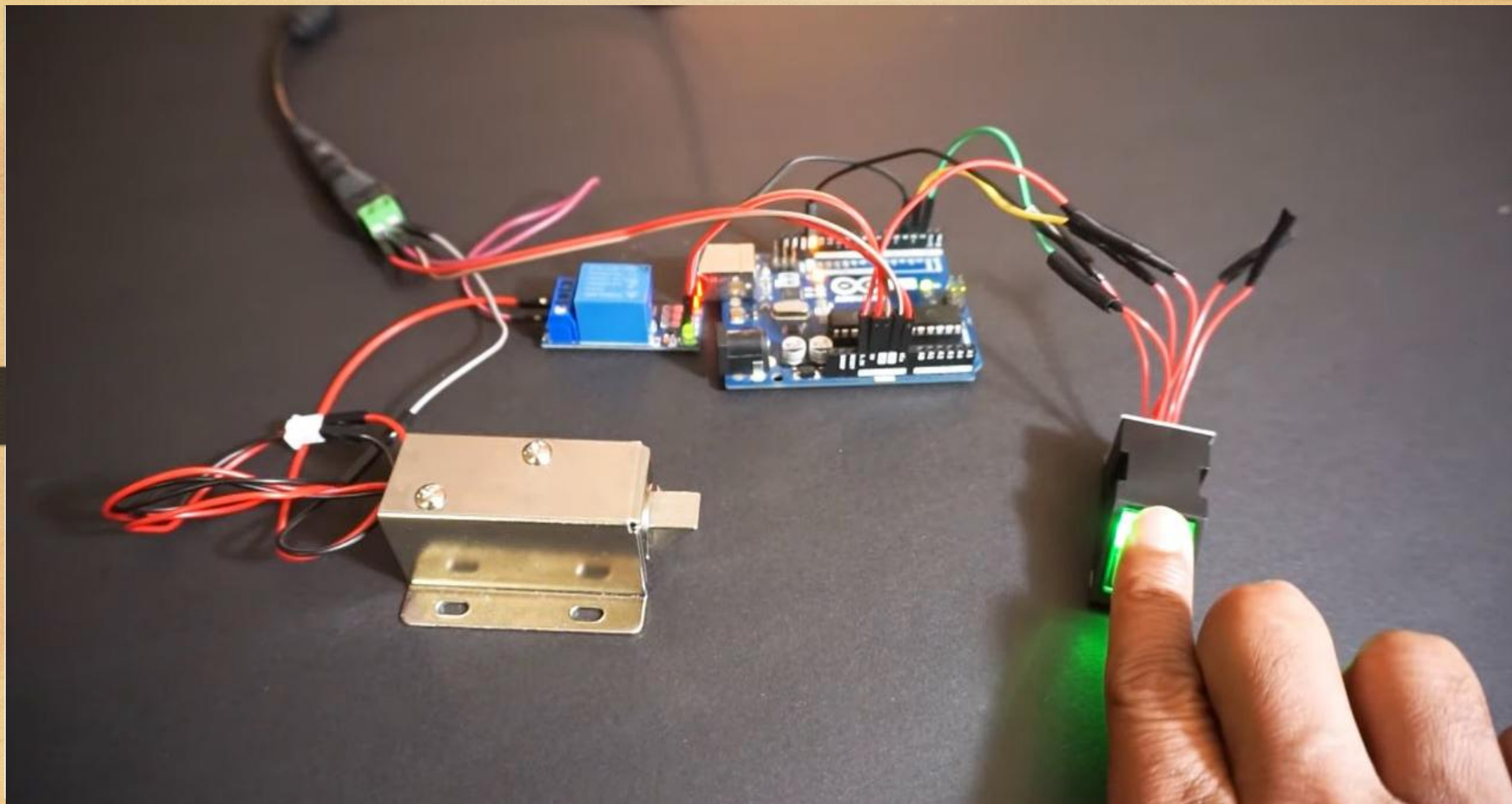


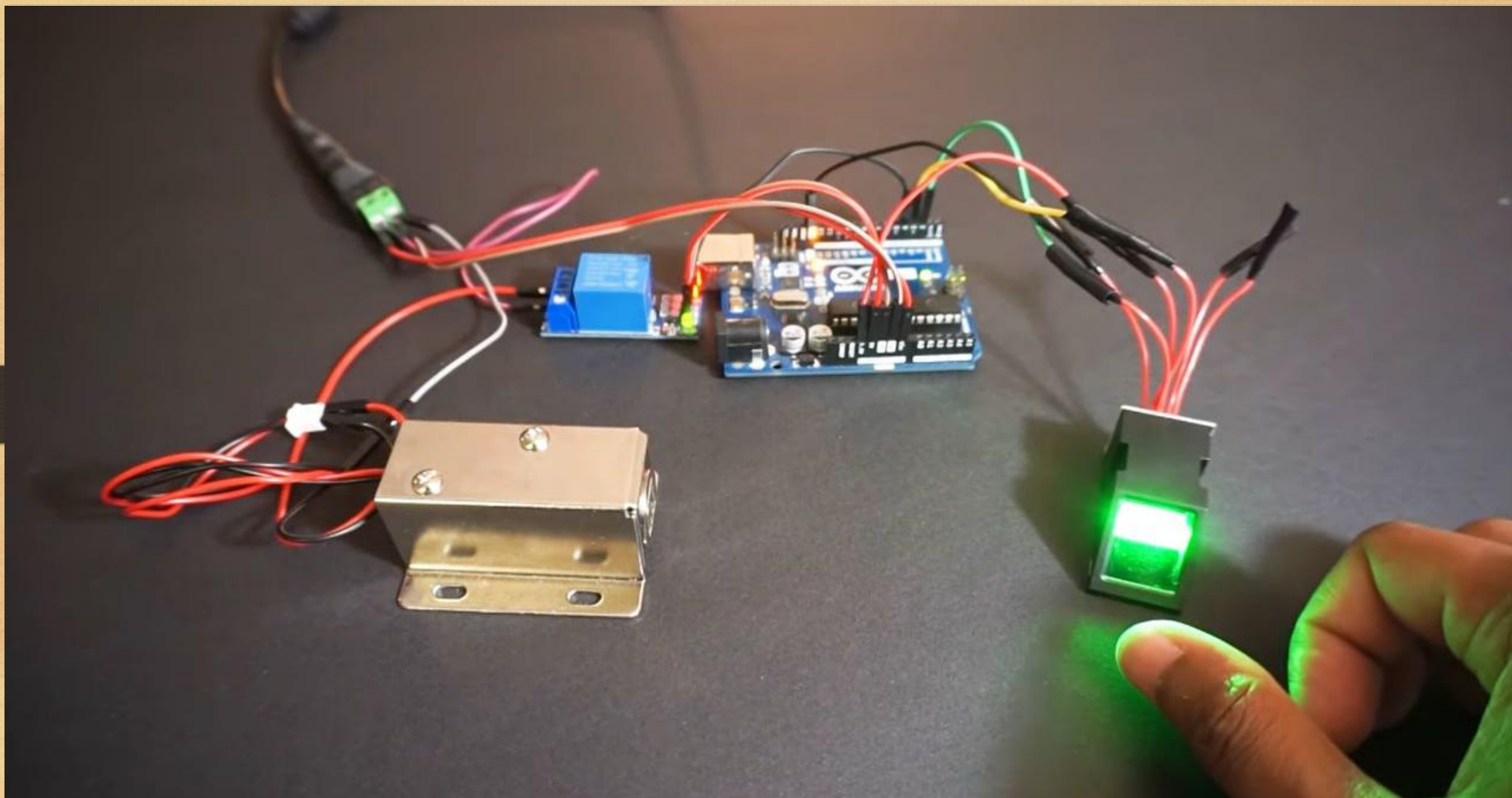
**12 V SOLENOID LOCK**



**5V RELAY**









# THANK YOU

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~Saji Krishna R S