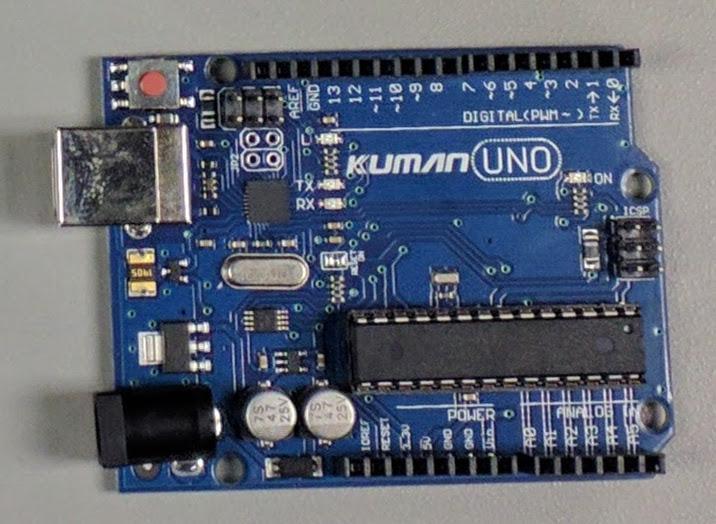
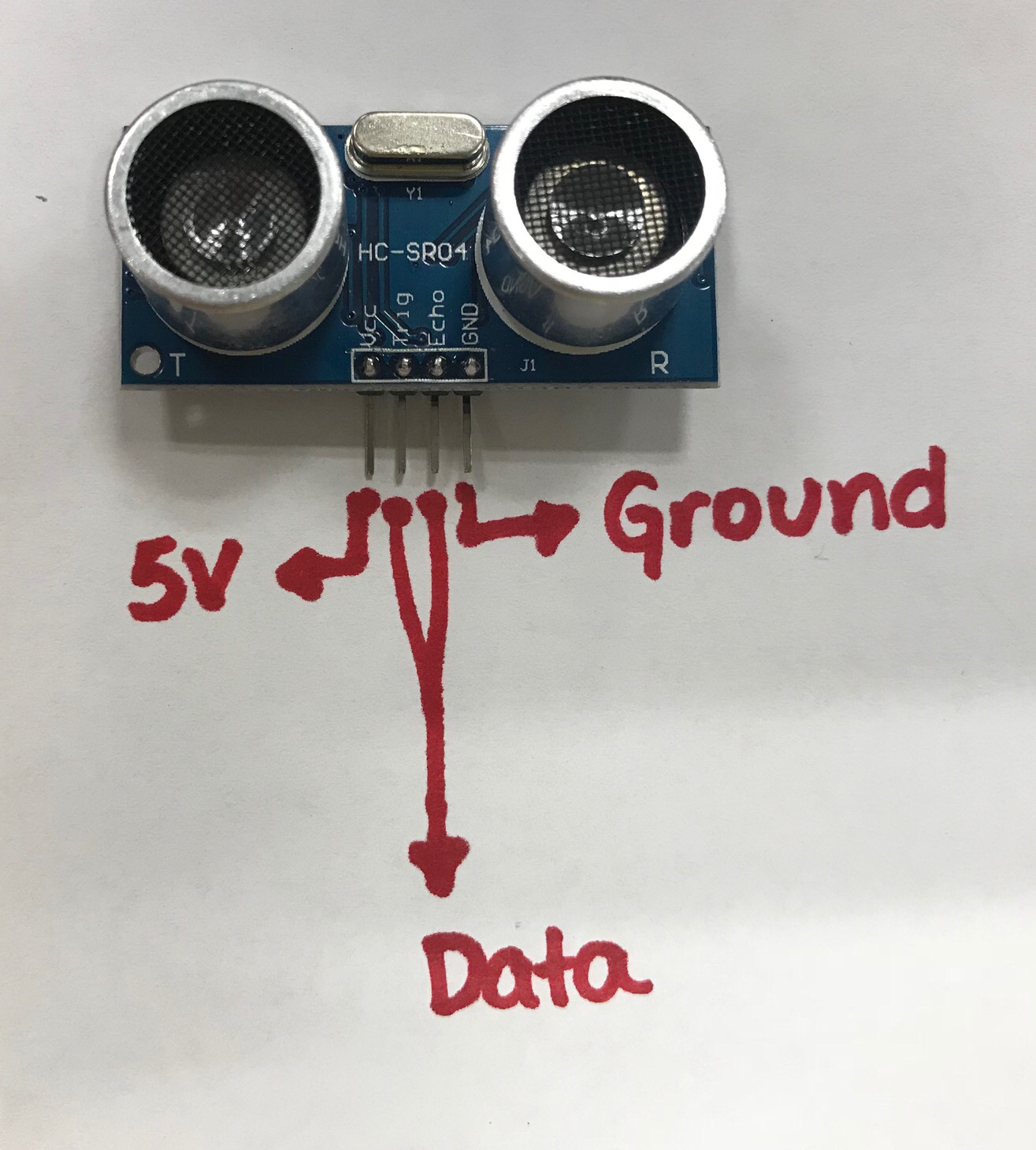
**iCREAT I: Module 5 - Arduino and The Ultrasonic Sensor**



# horizontal line

# Objectives

* Control the Ultrasonic sensor
* Use digital and analog inputs
* Use If/Else statements to control components based on input values
* Display data using the serial monitor
* Use text-based sketches

# 

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# TABLE of CONTENT: Module 5

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Topic** | **Activities** | **Faculty** |
| **Module 5** | | | |
| 1 | **How to use an Ultrasonic Sensor with Arduino** | Present: **iCREAT I - Module 5 - Coding with Arduino III** |  |
| 2 | **LAB** | **LAB 1**: **iCREAT I - Module 5 – LAB- Arduino Ultrasonic Sensor** |  |
| 3 | **Project Requirements**  **Homework:**  **“Module 1 -Lab-Final Project Requirements”** | Discuss project requirements and physical model ideas.  Use **iCREAT I - Module 1 - Lab-Final Project Requirements** to combine your individual ideas into a team proposal.  HOMEWORK: This assignment must be submitted during Module 7 |  |
| 4 | **Homework** | HOMEWORK: **iCREAT I - Module 5 - Homework: Arduino Ultrasonic Sensor** |  |
| 5 | **To prepare for the next Module, watch videos and take notes** | **Videos for Module 6: Study Controlling Motors with Arduino and Motor Shield** |  |