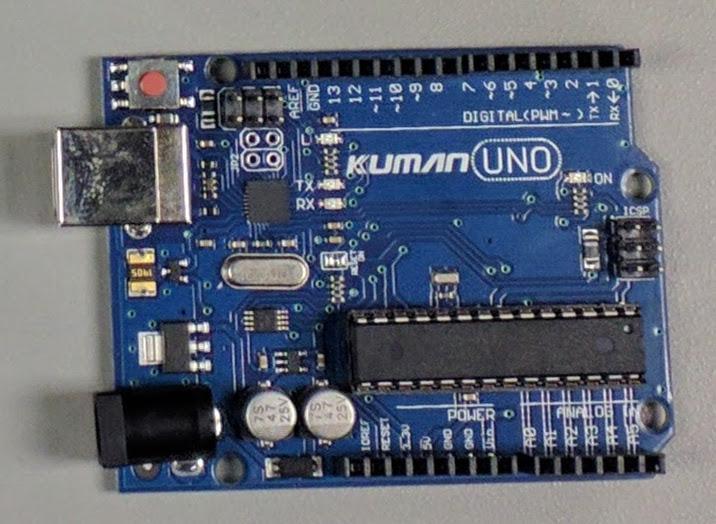
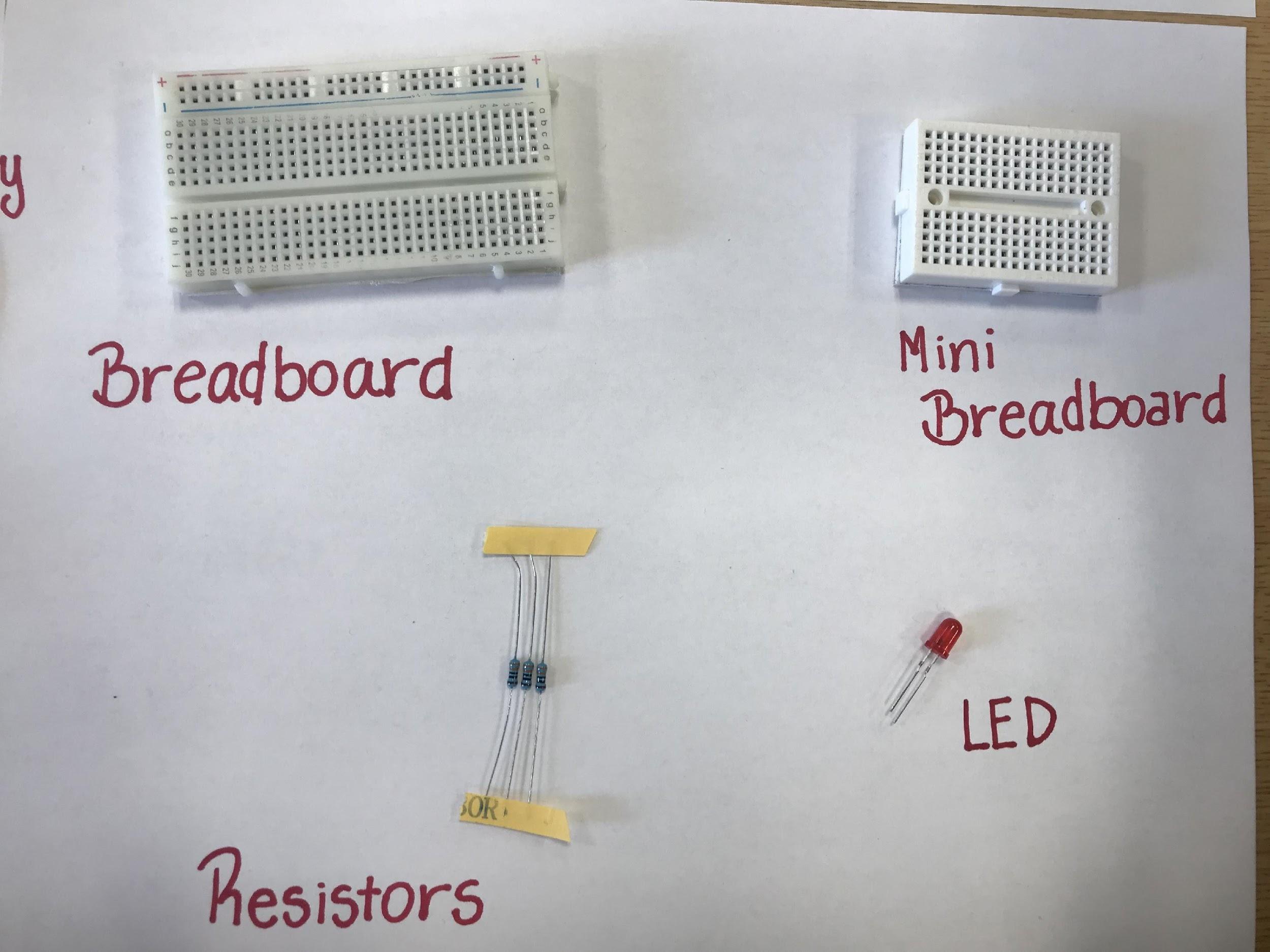
**iCREAT I - Module 3: Electronic Components & Coding**



# horizontal line

# Objectives

* Identify electronic components like LEDs, resistors, and buzzer
* Simulate a few circuits using these electronic components
* Port them to the breadboard using different voltage sources
* Communicate with fellow students to troubleshoot the circuit issues
* Control the electronic components with code
* Use variables to simplify your code

# 

# 

# TABLE of CONTENT: Module 3

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Topic** | **Activities** | **Faculty** |
|  | **Module 3** | |  |
| 1 | **Electronic Components: Breadboards, Battery, Resistor, Ohm's law and LEDs** | Present: ***Electronics Components I*** |  |
| 2 | **LAB** | Present: **Resistors**  LAB 1: **Module 3-LAB 1: Using a Multimeter** |  |
| 3 | **Coding with Arduino I** | Present: **Coding with Arduino I**  Programming Cheat Sheet: **iCREAT I - Programming Cheat Sheet** |  |
| 4 | **LAB** | LAB 2: **iCREAT I-Module 3-LAB 2: LED and Buzz Intro** |  |
| 5 | **Project Requirements** | Break into teams. Discuss project requirements and physical model ideas. Start sketching ideas.  Note your ideas **iCREAT I-Module 1-LAB: Final Project Requirements** |  |
| 6 | **Homework:** | HOMEWORK: **iCREAT I - Module 3 - Homework: Arduino LED and Buzzer** |  |
| 7 | **To prepare for the next class, watch videos and take notes** | **Videos for Module 5:**  **Study Electronic Components** |  |
| 8 | **Mentoring** | Introduce Mentoring component |  |