

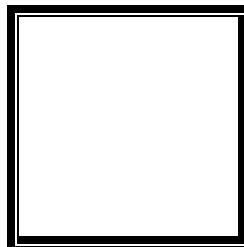


**PAMANTASAN NG LUNGSOD NG MAYNILA**  
(University of the City of Manila)  
Intramuros, Manila

---

**Microprocessor Lab**

Laboratory Activity No. 1  
**Familiarization with TinkerCAD**



Score

*Submitted by:*  
**Garcia, Joven M.**  
<Sat 10am-1pm> / <CPE 0412 1-1>

*Date Submitted*  
**09-30-2023**

*Submitted to:*  
**Engr. Maria Rizette H. Sayo**

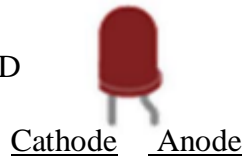
---

## 1. Exercise

- A process in Tinkercad where we can develop electronic circuits that can be quickly updated, modified and tested is called Simulation
- In Tinkercad, simulation tests the working of the circuits and the components.
- The device used to assemble and connect the various components is known as breadboard
- In an electronic circuit with LED, the positive end of the circuit should be connected to Anode and negative end should be connected to Cathode of the LED.
- A Resistor is used to restrict the flow of current to electrical components

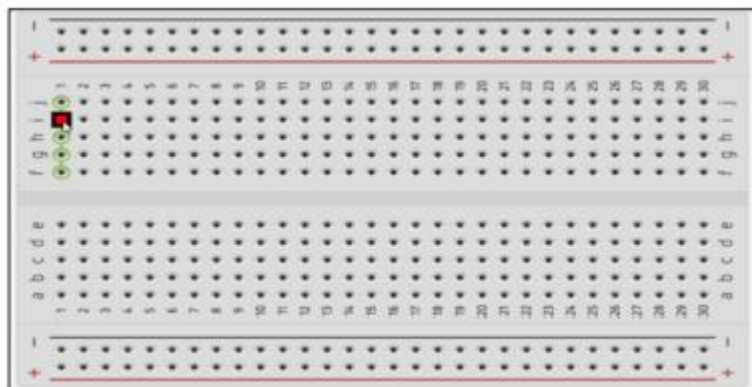
## 2. Label the following:

- Anode and Cathode in a LED



Cathode: The shorter lead  
Anode: The longer Lead

- Different parts of breadboard



Rows: A to J  
Columns + and –  
Holes: Where you insert components  
Red lines – creates electrical connection between components  
Black Lines: Create electrical connections separate from red lines

- List the electronic components used in a circuit assembly

Resistor  
LED  
Potentiometer  
Breadboard  
Arduino Uno  
Transistors  
Capacitors  
Switches  
Connectors  
Wires  
Diodes  
Inductors