

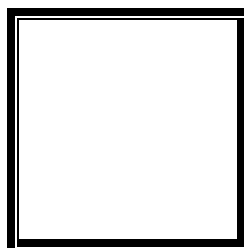


**PAMANTASAN NG LUNGSOD NG MAYNILA**  
(University of the City of Manila)  
Intramuros, Manila

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**Microprocessor Lab**

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



Score

*Submitted by:*  
**Mendoza, Kenji J.,**  
**1:00pm – 4:00pm Friday / CPE 0412-2**

*Date Submitted*  
**16-09-2023**

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

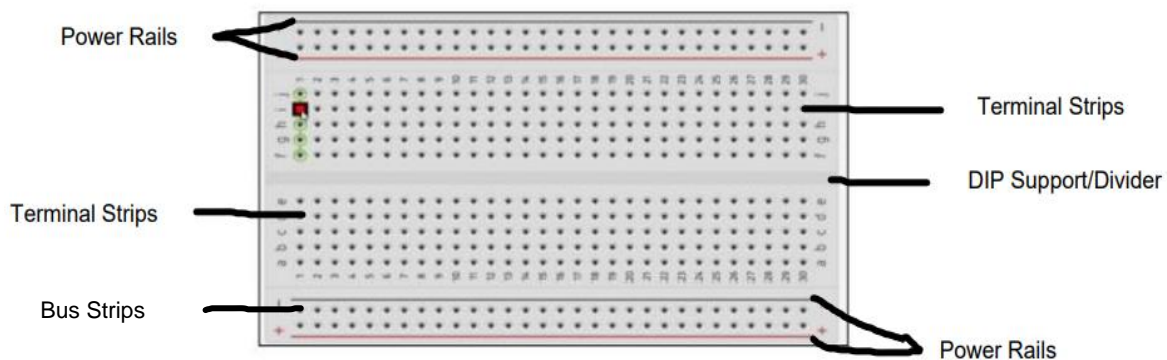
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## 1. Exercise

- a. A process in Tinkercad where we can develop electronic circuits that can be quickly updated, modified and tested is called rapid prototyping.
- b. In Tinkercad, simulation tests the working of the circuits and the components.
- c. The device used to assemble and connect the various components is known as breadboard
- d. 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.
- e. A resistor is used to restrict the flow of current to electrical components

## 2. Label the following:

- a. Anode and Cathode in a LED
- b. Different parts of breadboard



- c. List the electronic components used in a circuit assembly

### Digital I/O

- Arduino Uno R3
- Breadboard
- LED
- Resistor
- Wires

### Analog I/O:

- Arduino Uno R3
- Breadboard
- LED
- Resistor
- Wires
- Potentiometer
- Multimeter