



**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:*  
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**S 10:00am-1:00pm / CPE 0412.1-1**

*Date Submitted*  
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*Submitted to:*  
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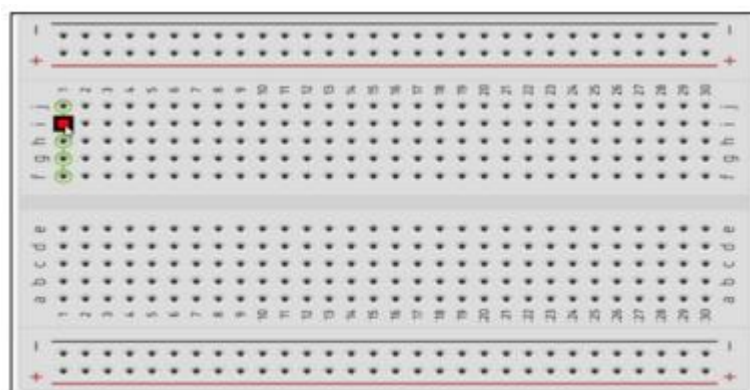
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## 1. Exercise

- A process in Tinkercad where we can develop electronic circuits that can be quickly updated, modified and tested is called ***Simulating/Simulation***.
- In Tinkercad, ***Design and 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
- Different parts of breadboard



- List the electronic components used in a circuit assembly
  - Resistor
  - Capacitor
  - Inductor
  - Diode
  - Transistor
  - LED
  - IC
  - Potentiometer
  - Switch
  - Connector
  - Battery
  - Sensor
  - Switching Power Supply
  - Wire and Cables
  - Fuse
  - Relay
  - Fuse
  - Voltage Regulator
  - Resistor Network
  - Transformer