



**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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**Saturday 1:00pm-4:00pm/ BSCpE 412-2**

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

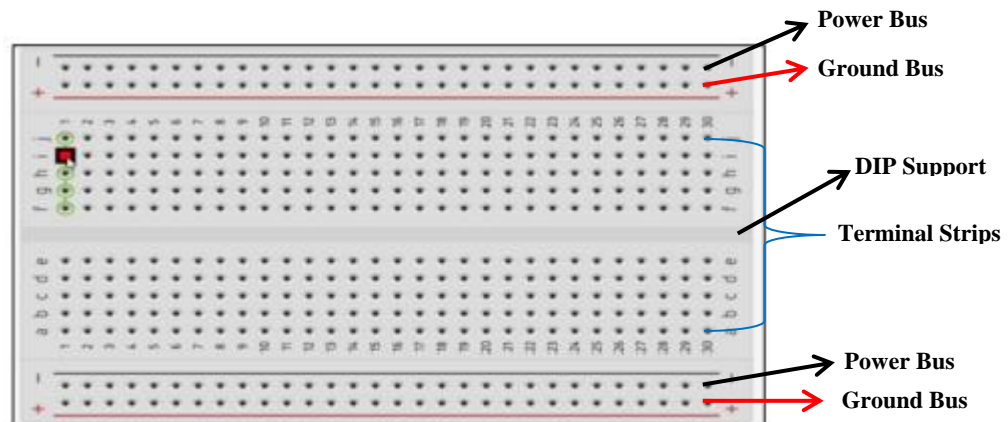
- A process in Tinkercad where we can develop electronic circuits that can be quickly updated, modified and tested is called **prototyping process**.
- In Tinkercad, **The Start/Stop Simulation** tests the working of the circuits and the components.
- The device used to assemble and connect the various 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
  - Capacitors
  - Diodes
  - Integrated Circuits or ICs
  - Network Components
  - Resistors
  - Semiconductors
  - Switches
  - Terminals and Connectors
  - Transistors