



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:
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<Saturday 10:30am – 1:00pm> / <CPE 0412-1.1>

Date Submitted
16-09-2023

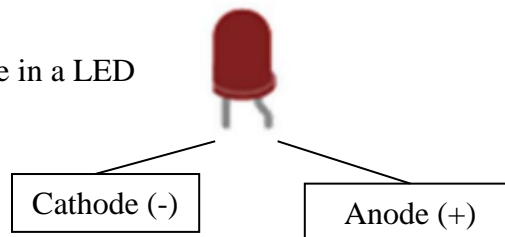
Submitted to:
Engr. Maria Rizette H. Sayo

1. Exercise

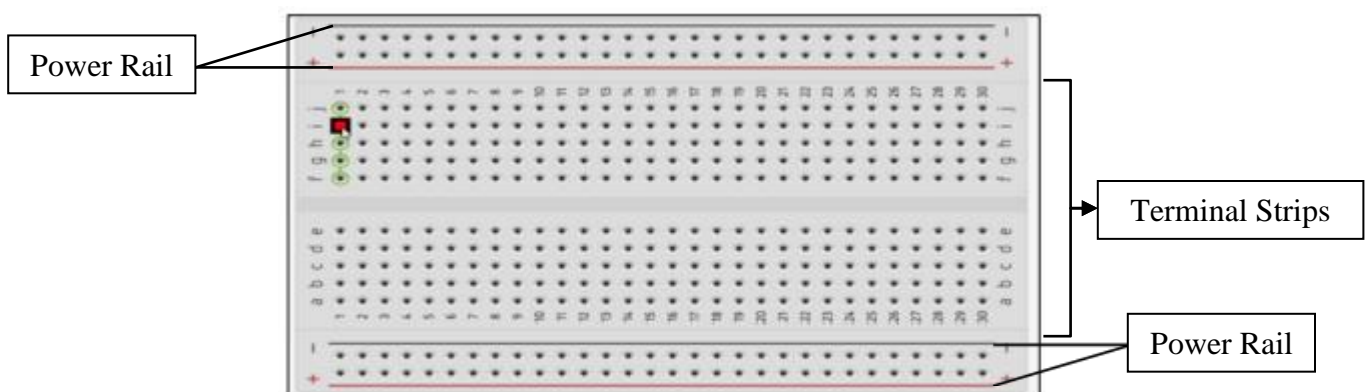
- A process in Tinkercad where we can develop electronic circuits that can be quickly updated, modified and tested is called simulation.
- In Tinkercad, simulation tests the working of the circuits and the components.
- The device used to assemble and connect the various components is known as breadboard
- 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:

- a. Anode and Cathode in a LED



- b. Different parts of breadboard



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

Resistor



Capacitor



1.5V Battery



LED



Slideswitch



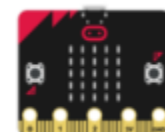
Breadboard Small



Pushbutton



micro:bit



Potentiometer



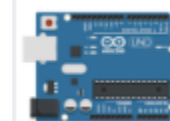
9v Battery



Coin Cell 3V Battery



Arduino Uno R3



Vibration motor



DC motor



Micro Servo



Hobby Gearmotor



NPN Transistor



LED RGB



Diode



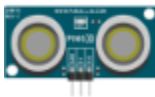
Photoresistor



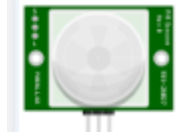
Soil Moisture Sensor



Ultrasonic Distance Sensor



PIR Sensor



Piezo



Temperature Sensor



Multimeter

