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:
Amagsila, Jeric C.
<Saturday 10:30am – 1:00pm> / <CPE 0412-1.1>

Date Submitted
16-09-2023

Submitted to:

Engr. Maria Rizette H. Sayo

1. Exercise

a. A process in Tinkercad where we can develop electronic circuits that can be quickly updated, modified, and tested is called **simulation**.

b. In Tinkercad, **simulation** tests the working of the circuits and the components.

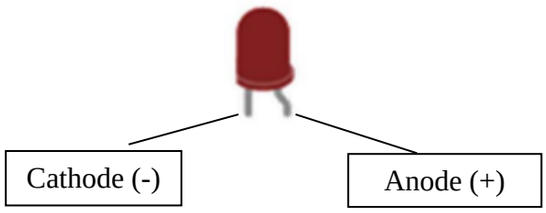
c. The device used to assemble and connect the various components is known as **breadboard**.

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.

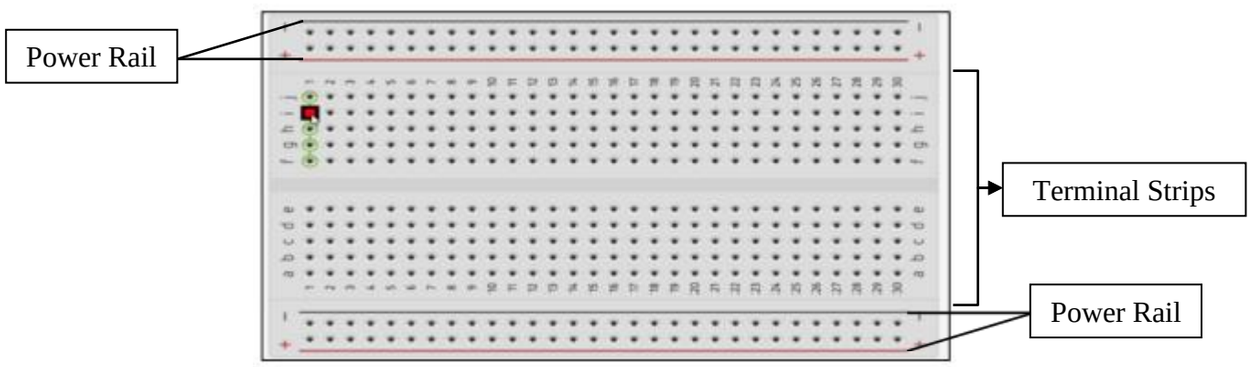
e. A **resistor** is used to restrict the flow of current to electrical components

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

Resistor

Potentiometer

LED

Capacitor

Pushbutton

Slide switch

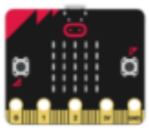
9v Battery

Coin Cell 3V Battery

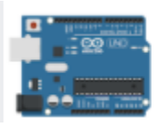
1.5V Battery

Breadboard Small

micro:bit



Arduino Uno R3



Vibration motor

DC motor

Micro Servo

Hobby Gearmotor

NPN Transistor

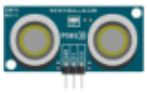
LED RGB

Diode

Photoresistor

Soil Moisture Sensor

Ultrasonic Distance Sensor



PIR Sensor

Piezo

Temperature Sensor

Multimeter