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

Date Submitted
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Submitted to:

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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 **PROTOTYPING PROCESS**.

b. In Tinkercad, **START/STOP 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.

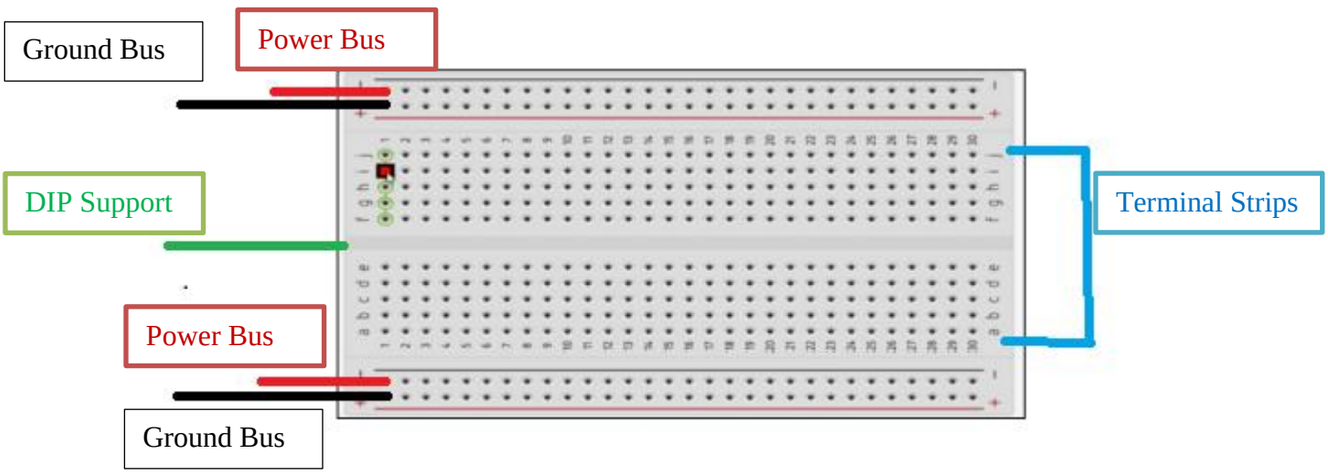
e. A **RESISTOR** is used to restrict the flow of current to electrical components

2. Label the following:

a. Anode and Cathode in a LED

CATHODE is on the LEFT
ANODE is on the RIGHT

b. Different parts of breadboard



c. List the electronic components used in a circuit assembly
Resistor, LED, Pushbutton, Potentiometer, Capacitor, Slideswitch, 9V Battery, Coin cell 3V Battery, 1.5V Battery, Breadboard Small, Microbit, 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 (TMP36), Multimeter