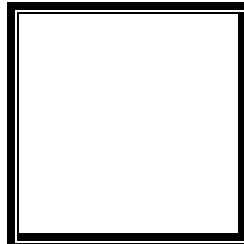




PAMANTASAN NG LUNGSOD NG MAYNILA
(University of the City of Manila)
Intramuros, Manila

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
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 **PROTOTYPING PROCESS**.
- In Tinkercad, **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

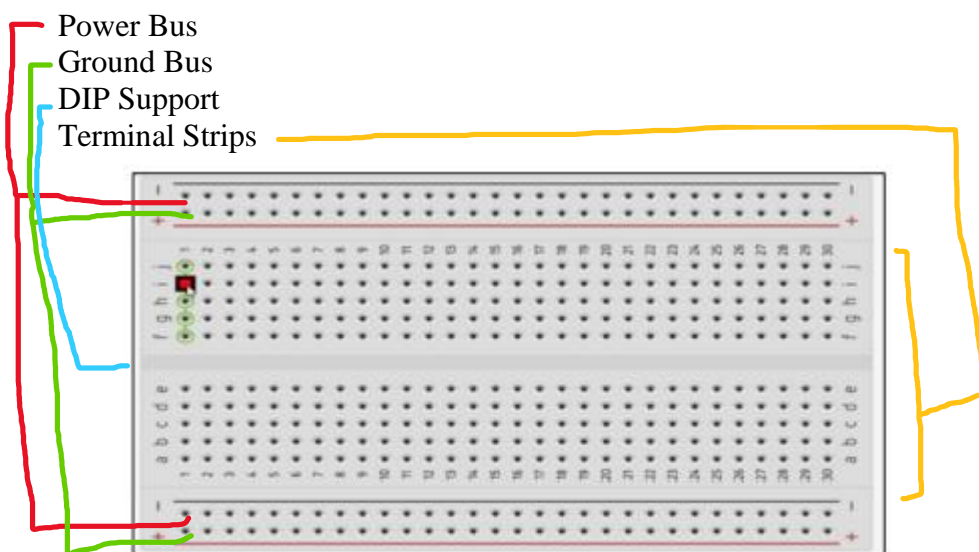
2. Label the following:

- Anode and Cathode in a LED



CATHODE is on the LEFT
ANODE is on the RIGHT

- Different parts of breadboard



- 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