



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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Sat 10:00 – 1:00 / CPE 0412.1-1

Date Submitted
16-09-2023

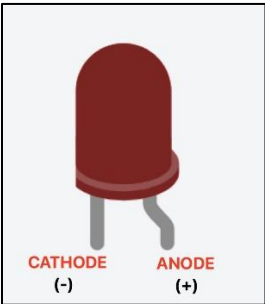
Submitted to:
Engr. Maria Rizette H. Sayo

1. Exercise

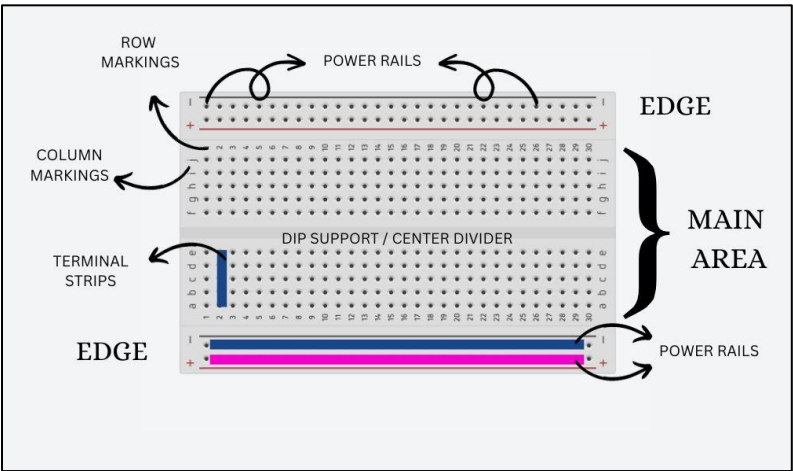
- a. A process in Tinkercad where we can develop electronic circuits that can be quickly updated, modified and tested is called Prototyping.
- b. In Tinkercad, Start/Stop Simulation tests the working of the circuits and the components.
- c. The device used to assemble and connect the various components 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

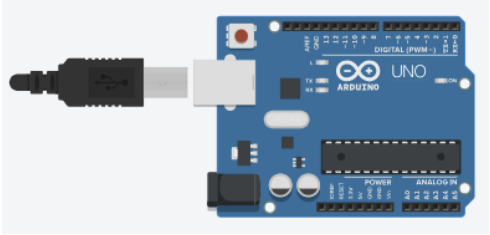
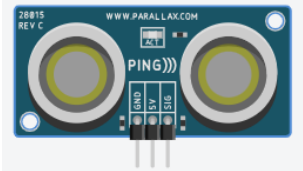








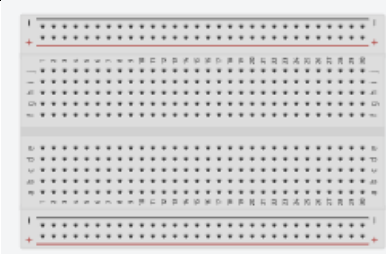
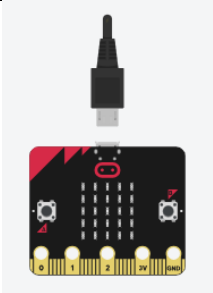
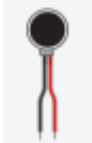


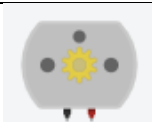

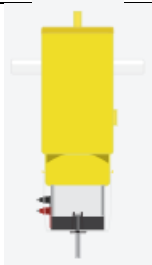



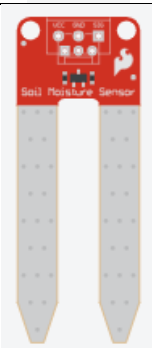
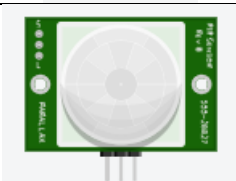
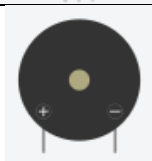
- b. Different parts of breadboard



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

NAME OF COMPONENTS	PICTURE
RESISTOR	
CAPACITOR	
PUSH BUTTON	
LED	

MICROCONTROLLER	
ULTRASONIC SENSOR	
TEMPERATURE SENSOR	
DIODE	
INDUCTOR	
POTENTIOMETER	
SLIDESWITCH	
9V BATTERY	
COIN CELL 3V BATTERY	
1.5V BATTERY	
BREADBOARD	
MICRO:BIT	
VIBRATION MOTOR	

DC MOTOR	
MICRO SERVO	
HOBBY GEARMOTOR	
NPN TRANSISTOR (BJT)	
LED RGB	
PHOTORESISTOR	
SOIL MOISTURE SENSOR	
PIR SENSOR	
PIEZO	
MULTIMETER	