Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Course yr. and section: \_\_\_\_\_\_\_\_\_ Instructor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Group No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Laboratory Work No.3

**VIBRATION MOTOR**

I. Objectives

To know the operation and utilize of Vibration Motor in a circuit.

To simulate the design a circuit using Arduino simulator.

II. Materials

TinkerCAD Arduino simulator

III. Problem

Instruction: Upload the video simulating the circuit on the week tab of the courseware and paste your codes on the box provided after each problem.

1. Create a program and design a circuit using a vibration motor that is connected to DIGITAL pin 5. Use a relay that is connected to vibration motor and use ultrasonic distance sensor as input control device. In serial monitor, it should display the distance measured by the sensor.

2. Create a program and design a circuit using a vibration motor that is connected to DIGITAL pin 7. Use a relay that is connected to vibration motor and use ultrasonic distance sensor as input control device. In serial monitor, it should display the distance measured by the sensor.

IV. Discussion

V. Conclusion