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

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

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

Laboratory Work No.4

**CONTROL COMPONENTS**

I. Objectives

To familiarize with the control component of 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 that will rotate a servo motor using DIGITAL pins 9, 10, 11 and 12. Use ANALOG pins as input that is connected to a flex sensor with a power supply.

2. Create a program and design a circuit that will rotate a servo motor using DIGITAL pins 7, 8, 12 and 13. Use ANALOG pins as input that is connected to a potentiometer sensor with a battery.

IV. Discussion

V. Conclusion