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

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

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

Laboratory Work No.6

**KEYPAD**

I. Objectives

To know the operation and utilize of Keypad 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, use a keypad as an input device that will rotate a DC motor clockwise using pins A1, A2, 12,13 for rows and pins 8, 9, 10, 11 for columns. The DC motor is connected to L293D and uses LCD to display the encoded password.

2. Create a program and design a circuit, use keypad as an input device that will rotate a DC motor clockwise using pins A1, A2, 12,13 for rows and pins 8, 9, 10, 11 for columns. The DC motor is connected to L293D and use LCD to display the encoded 4-digit password.

IV. Discussion

V. Conclusion