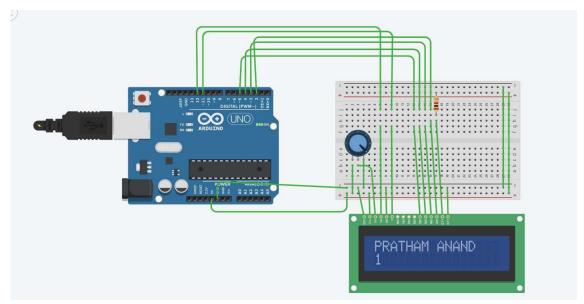
# **Exp** 7

## Circuit diagram:



## Theory:

## Concept used:

Various concepts are used in this exp as listed:

- 1. Use of digital data display system
- 2. Use of LCD
- 3. Use of potentiometer

## Learning and Observations:

In this exp we learnt about

- 1. How to code Arduino for making the output from LCD.
- 2. Liquid crystal display.
- 3. The new application of Potentiometer.

#### **Observations:**

- 1. We get to know about how lcd.print command works.
- 2. If we change the value in begin then it will change the LED's number of columns and rows.

#### Problem and troubleshooting:

- 1. To select the right port and type of Arduino
- 2. To check the continuity of the circuit.
- 3. Setting up right connections.
- 4. Display in proper order.
- 5. Pin modes of LCD.

#### **Precautions:**

- 1. Do not connect arduino till the circuit is complete.
- 2. Do not connect LCD without a variable resistor.

#### **Learning Outcomes:**

- 1. Display our command as digital data output.
- 2. Proper use of Arduino and breadboard