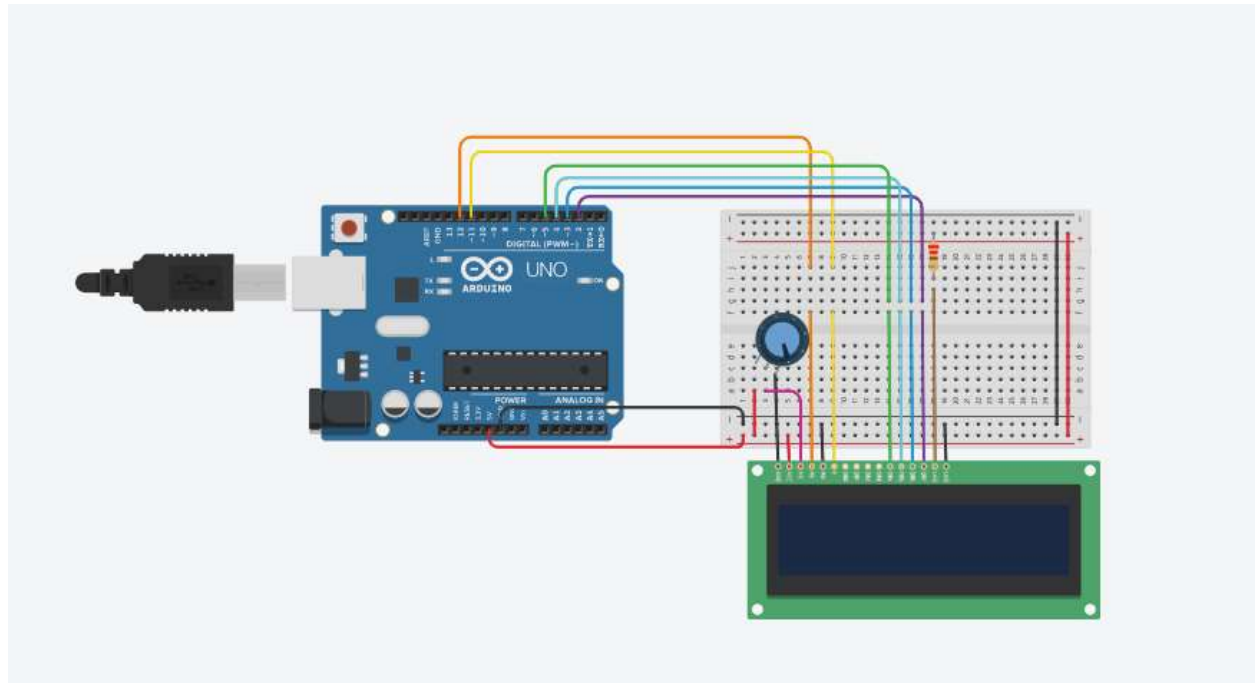# EXP 7-Programmable Digital Data Display system.

CIRCUIT DIAGRAM

THEORY

CONCEPT USED:

1. Making connection in BREADBOARD.
2. Coding of micro-controller in ARDUINO UNO.
3. Working of LCD
4. Use of Potentiomenter.

LEARNING AND OBSERVATIONS:

In the experiment we learned

- Breadboard and its wiring.
- Using LCD and ARDUINO UNO to make different devices.
- Coding in ARDUINO.
- Connections of LCD.
- Working Principle of LCD.

My Observations were:

o Coding syntax is similar to C language.
o LCD is of 16/2 matrix with 16 columns and 2 rows

PROBLEMS AND TROUBLESHOOTING:

- To check whether correct port and type of ARDUINO is selected or not.
- Declaring correct input/output pins.
- Order of pin declaration should same as the connections in breadboard else the circuit won't work.
- Checking that the column should be declared first and then rthe the row for cursor setting.

PRECAUTIONS:

➢ Check loose connections.
➢ All LCD connections should be correctly made.

LEARNING OUTCOMES:

Got a slight idea of using ARDUINO UNO for different purposes and the practical use of LCD for making different devices.