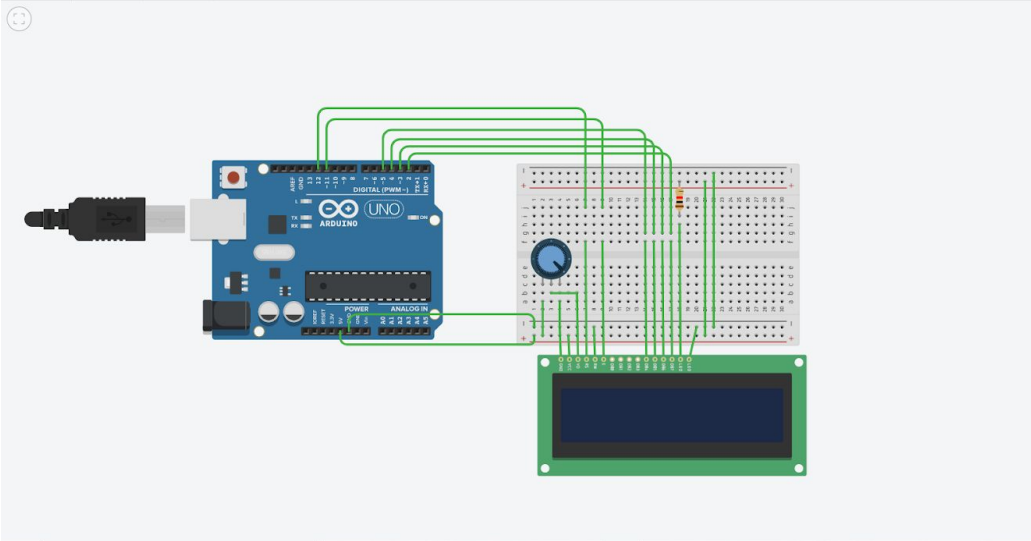
EXPERIMENT -7

Aim:Design a Programmable Digital Data Display system.

Apparatus: Arduino, resistance, variable resistance, wires, Breadboard, LCD.

Circuit Diagram:



THEORY:

Concept used:

- We have used the concept of **LCD(liquid crystal display).**

- We have used the potentiometer for variable resistance.

Learning and observation:

- The Liquid Crystal library works with all LCD displays that are compatible with the driver.
- Potentiometer keeps voltage difference constant.
- A digital data display of hello world can be seen when you turn on the circuit.
- A in-built library **#include <LiquidCrystal.h>** is used to reduce the code which already contain the details of connections.

Problem and Troubleshooting:

- Port selection should be done properly where you have connected arduino to the system.
- End wires of potentiometer should be connected 0 and 5 volt connecting middle wire change the voltage difference.
- Connection should not be loose.

Precautions:

- Avoid dropping or applying mechanical impact on LCD as it can damage display surface.
- Check the working of LCD beforehand.

Learning outcome:

- I have learnt the use of input library function for lcd .
- I have learnt how to change the movement of cursor at different location of on display screen.