PREMIER UNIVERSITY CHATTOGRAM

DEPARTMENT OF **COMPUTER SCIENCE AND ENGINEERING**

Lab Report

COURSE NAME	Microcontrollers Laboratory
COURSE CODE	CSE3816
REPORT NO	02
REPORT NAME	Introduction to control of 2 segment LCD display with Arduino.
DATE OF REPORT	30-04-24

SUBMITTED TO

MOHAMMED SAIFUDDIN MUNNA

ASSISTANT PROFESSOR

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

REMARKS	**SUBMITTED BY**	
	NAME	Rimjhim Dey
	ID	0222220005101039
	SEMESTER	4th
	BATCH	42
	SESSION	Spring 2024
	SECTION	A

Experiment Name:

Introduction to control of 2 segment LCD display with Arduino.

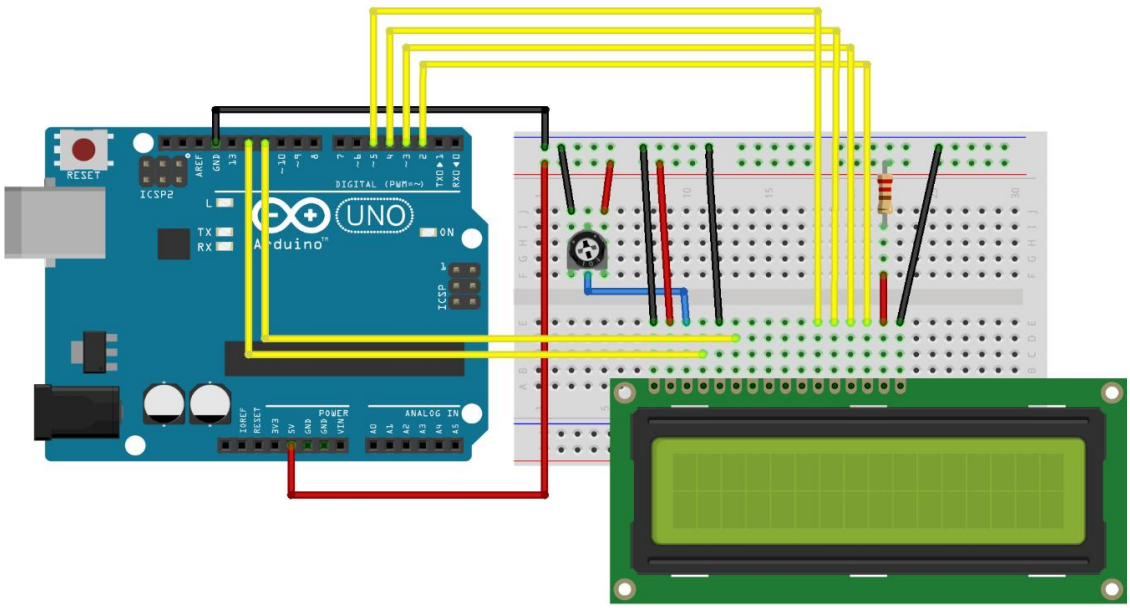
Objective:

The objective of this experiment is to familiarize oneself with controlling a 2-segment LCD display using an Arduino microcontroller. This involves understanding the necessary connections, initializing the display, and displaying characters or digits.

Instruments Required:

- Arduino Board (e.g., Uno, Nano, Mega)
- 2-segment LCD display
- Potentiometer (for contrast adjustment, if required)
- Connecting wires

Circuit Diagram:



Source Code:

```
#include <LiquidCrystal.h>


LiquidCrystal lcd(12, 11, 5, 4, 3, 2);

void setup() {

  lcd.begin(16, 2);

  lcd.print("Premier");
  lcd.setCursor(0, 1);
  lcd.print("University");
}

void loop() {

}
```

Output:

Upon powering the circuit and uploading the code to the Arduino, the LCD display will show "Premier" on the first row and "University" on the second row. The display remains static, showing this message continuously.

Discussion:

In this experiment, we configured a 2-segment LCD display to show the message "Premier University" using an Arduino microcontroller. We connected the LCD to the Arduino and utilized the LiquidCrystal library to initialize the display and print the message. By setting the cursor position appropriately, we displayed "Premier" on the first row and "University" on the second row. This experiment demonstrates how to control and display messages on an LCD, a fundamental skill for creating more complex user interfaces in Arduino projects.