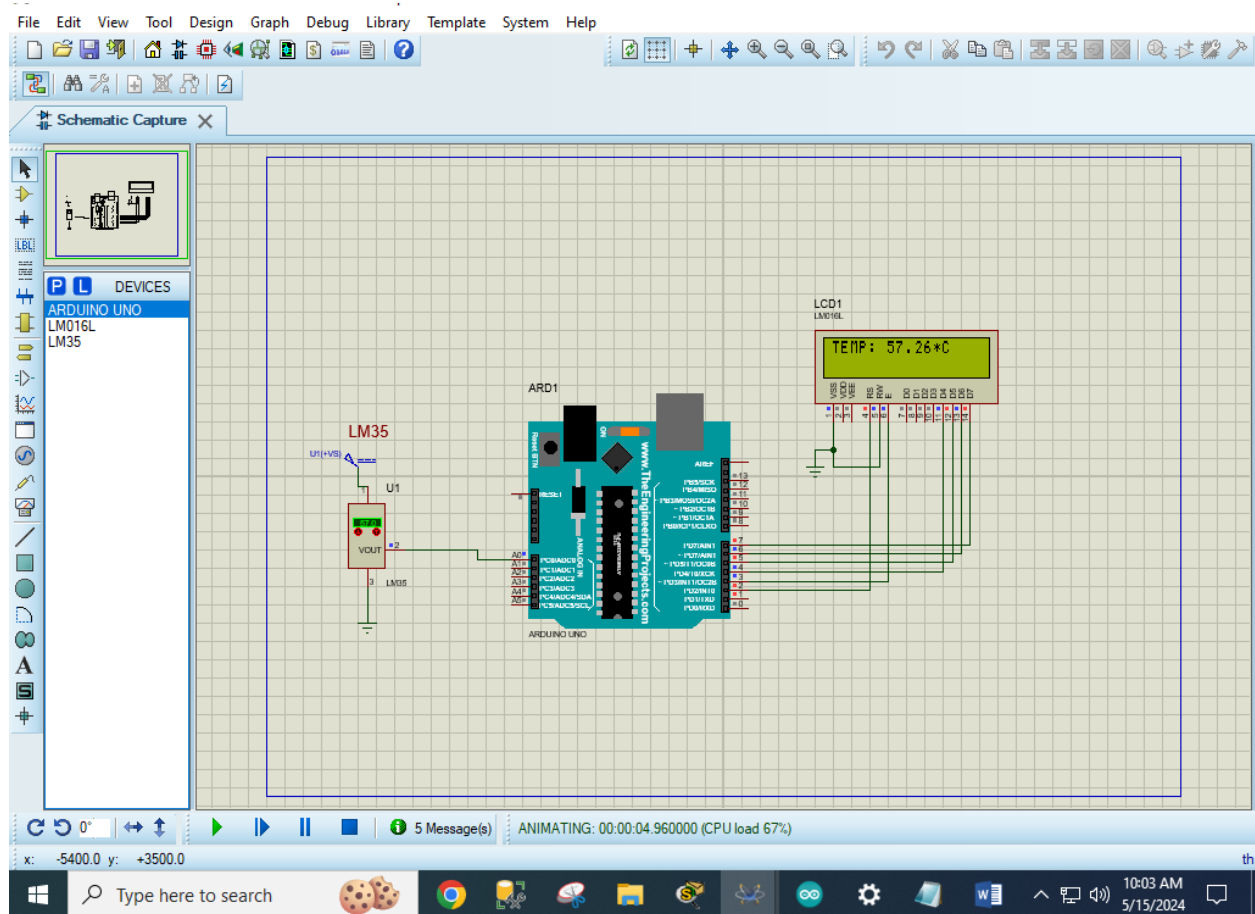


CA LAB 12

MUHAMMAD USMAN HUSSAIN 12439

OUTPUT:



CODE:

```
# include "LiquidCrystal.h"

const int rs = 2, en = 3, d4 = 4, d5 = 5, d6 = 6, d7 = 7;

LiquidCrystal lcd(rs, en, d4, d5, d6, d7);

float temp;      // to include LM 35 sensor

void setup() {

  Serial.begin(9600);

  analogReference(INTERNAL);

  lcd.begin (16,2);           // the codes written here is to run the programme once

  lcd.setCursor(0, 0);

  lcd.print(" MADE BY ");

  lcd.setCursor(0, 1);

  delay(400);

  lcd.print(" Muhammad Usman Hussain 12439 ");

  delay (700);

  lcd.clear();               //Let system settle
}

void loop() {

  temp = analogRead(A0);           //temp = temp * 0.48828125;
  //temp=temp*(5.0/1023.0)*100;

  temp=temp*1100/(1024*10);

  lcd.print("TEMP: ");

  lcd.print(temp);

  lcd.println("*C");

  delay(500);

  lcd.clear();               //Let system settle
}
```