12. Write a program to show the temperature and shows a graph of the recent measurements

#include<LiquidCrystal.h>

#define sensor A0

float analog\_value;

LiquidCrystal lcd(2,3,4,5,6,7);

byte degree[8] =

{

0b00011,

0b00011,

0b00000,

0b00000,

0b00000,

0b00000,

0b00000,

0b00000

};

void setup()

{

lcd.createChar(1, degree);

lcd.begin(16,2);

Serial.begin(9600);

pinMode(sensor, INPUT);

lcd.setCursor(0,0);

lcd.print("Temperature Plot");

lcd.setCursor(0,1);

lcd.print("Using Proccesing");

delay(2000);

lcd.clear();

lcd.setCursor(0,0);

lcd.setCursor(0,1);

delay(2000);

lcd.clear();

}

void loop()

{

float reading=analogRead(sensor);

analog\_value=reading\*(5.0/1023.0)\*100;

lcd.setCursor(0,0);

lcd.print(" Temperature ");

lcd.setCursor(4,1);

lcd.print(analog\_value);

lcd.write(1);

lcd.print("C");

Serial.println(analog\_value);

delay(700);

}





