IoT

Lab 8

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C20452282

Q1

#include <LiquidCrystal.h>

#include <Wire.h>

#include <Servo.h>

LiquidCrystal lcd(3,4,5,10,11,12,13);

Servo myservo;

void setup() {

Serial.begin(9600);

myservo.attach(9);

lcd.begin (16,2);

lcd.setCursor(0,0);

lcd.print("Do not touch!"); // initialize the lcd

myservo.write(0);

}

void loop() {

int potentiometer = analogRead(A0);//reads value from 0 10 1023

potentiometer = map(potentiometer, 0, 1023, 0 ,179);

Serial.println(potentiometer);

myservo.write(potentiometer);

lcd.setCursor(3,0);

lcd.print(" "); // This covers up the previous value

lcd.setCursor(3,0);

lcd.print(potentiometer);

delay(1000);

}

Q2

#include <Servo.h>

Servo myservo;

void setup() {

Serial.begin(9600);

myservo.attach(9);

}

void loop() {

int potentiometer = analogRead(A0);//reads value from 0 10 1023

potentiometer = map(potentiometer, 0, 1023, 0 ,179);

Serial.println(potentiometer);

myservo.write(potentiometer);

delay(1000);

}