AS-SALAM COLLEGE OF ENGINEERING &TECHNOLOGY

THIRUMANGALAKUDI-ADUTHURAI

IOT Assignment: Assignment no.1

Topic: Build smart home using all sensors

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CODE:

void setup()

{

Serial.begin(9600);

}

void loop()

{

double a = analogRead(A0);

Serial.print("Analog Value: ");

Serial.println(a);

double ca = a/1024;

Serial.print("converted Analog value: ");

Serial.println(ca);

double v = ca \* 5;

Serial.print("voltage value: ");

Serial.println(v);

double o = v-0.5;

Serial.print("offset value: ");

Serial.println(o);

double c = o\*100;

Serial.print("celsius value: ");

Serial.println(c);

delay(2000);

}

#include<Servo.h>

Servo s;

void setup()

{

s.attach(3);

}

void loop()

{

s.write(0);

delay(1000);

s.write(30);

delay(1000);

s.write(70);

delay(1000);

s.write(130);

delay(1000);

s.write(180);

delay(1000);

}

int buzz = 12;

void setup()

{

pinMode(buzz,OUTPUT);

}

void loop()

{

tone(buzz, 131);

delay(250);

noTone(buzz);

delay(125);

tone(buzz, 131);

delay(250);

tone(buzz, 147);

delay(500);

tone(buzz, 131);

delay(500);

tone(buzz, 175);

delay(500);

tone(buzz, 165);

delay(1000);

tone(buzz, 131);

delay(250);

noTone(buzz);

delay(125);

tone(buzz, 131);

delay(250);

tone(buzz, 147);

delay(500);

tone(buzz, 131);

delay(500);

tone(buzz, 196);

delay(500);

tone(buzz, 175);

delay(1000);

tone(buzz, 131);

delay(250);

noTone(buzz);

delay(125);

tone(buzz, 131);

delay(250);

tone(buzz, 262);

delay(500);

tone(buzz, 220);

delay(500);

tone(buzz, 175);

delay(500);

tone(buzz, 165);

delay(500);

tone(buzz, 147);

delay(500);

tone(buzz, 233);

delay(250);

noTone(buzz);

delay(125);

tone(buzz, 233);

delay(250);

tone(buzz, 220);

delay(500);

tone(buzz, 175);

delay(500);

tone(buzz, 196);

delay(500);

tone(buzz, 175);

delay(1000);

noTone(buzz);

delay(100);

}

void setup(){

pinMode(0,OUTPUT);

pinMode(1,OUTPUT);

pinMode(2,OUTPUT);

pinMode(3,OUTPUT);

pinMode(4,OUTPUT);

pinMode(5,OUTPUT);

pinMode(6,OUTPUT);

}

void loop(){

digit (0,0,0,0,0,0,1);

delay(1000);

digit (1,0,0,1,1,1,1);

delay(1000);

digit (0,0,1,0,0,1,0);

delay(1000);

digit (0,0,0,0,1,1,0);

delay(1000);

digit (1,0,0,1,1,0,0);

delay(1000);

digit (0,1,0,0,1,0,0);

delay(1000);

digit (0,1,0,0,0,0,0);

delay(1000);

digit (0,0,0,1,1,1,1);

delay(1000);

digit (0,0,0,0,0,0,0);

delay(1000);

digit (0,0,0,0,1,0,0);

delay(1000);

}

void digit(int a0, int a1, int a2, int a3, int a4, int a5, int a6)

{

digitalWrite(0,a0);

digitalWrite(1,a1);

digitalWrite(2,a2);

digitalWrite(3,a3);

digitalWrite(4,a4);

digitalWrite(5,a5);

digitalWrite(6,a6);

}