PROGRAM FOR US AND RAIN SENSOR

#include<Servo.h>

Servo myservo;

int pos=0;

const int capture\_D = 4;

const int capture\_A = A0;

int val\_analog;

int const trigPin=10;

int const echoPin=9;

int const buzzPin=2;

int duration,distance;

void setup()

{

myservo.attach(8);

pinMode(capture\_D,INPUT);

pinMode(capture\_A,INPUT);

pinMode(6,OUTPUT);

pinMode(trigPin,OUTPUT);

pinMode(echoPin,INPUT);

pinMode(buzzPin,OUTPUT);

Serial.begin(9600);

}

void loop()

{

val\_analog=analogRead(capture\_A);

Serial.println(val\_analog);

for(pos=0;pos<=90;pos++)

{

myservo.write(pos);

}

ultra();

if(val\_analog<=100)

{

digitalWrite(12,LOW);

}

else

{

digitalWrite(12,HIGH);

}

for(pos=90;pos>=0;pos--)

{

myservo.write(pos);

delay(15);

}

void ultra()

{

digitalWrite(trigPin,LOW);

delay(5);

digitalWrite(trigPin,HIGH);

delay(15);

digitalWrite(trigPin,LOW);

pinMode(echoPin,INPUT);

duration=pulseIn(echoPin,HIGH);

distance=(duration/2)/29.1;

if(distance>0&&distance<=10)

{

digitalWrite(buzzPin,HIGH);

}

}

PRGRAM FOR WATER LEVEL

#include<Servo.h>

Servo myservo;

const int analogpin = A0;

int sensorvalue = 0;

void setup() {

myservo.attach(9);

pinMode(2,OUTPUT);

Serial.begin(9600);

}

void loop() {

// put your main code here, to run repeatedly:

sensorvalue = analogRead(analogpin);

Serial.println(sensorvalue);

delay(2);

if(sensorvalue>0&&sensorvalue<150)

{

myservo.write(90);

}

else

{

myservo.write(0);

}

}