**ARDUINO CODE FOR SMART BLIND STICK**

const int trigPin = 9;

const int echoPin = 10;

// defines variables

long duration;

int distance;

const int Buzzer=6;

void setup()

{

  pinMode(trigPin, OUTPUT); // Sets the trigPin as an Output

pinMode(echoPin, INPUT);

  Serial.begin(9600);

  }

void loop()

{

  digitalWrite(trigPin, LOW);

delayMicroseconds(2);

// Sets the trigPin on HIGH state for 10 micro seconds

digitalWrite(trigPin, HIGH);

delayMicroseconds(10);

digitalWrite(trigPin, LOW);

// Reads the echoPin, returns the sound wave travel time in microseconds

duration = pulseIn(echoPin, HIGH);

// Calculating the distance

distance= duration\*0.034/2;

// Prints the distance on the Serial Monitor

Serial.print("Distance: ");

Serial.println(distance);

  int a=analogRead(0);

  Serial.print("Moisture Sensor Value:");

  Serial.println(a);

  if(distance<30)

  {

    tone(Buzzer, 1000, 500);

    }

  if(a<1020)

  {

    tone(Buzzer, 5000, 500);

    }

  delay(1000);

  }