ASSIGNMENT 1

Date	19 September 2022
Team ID	PNT2022TMID48581
Name	Ramya. R
Project Name	Project – Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

PROGRAM

```
const int echoPin=2, triggerPin=3, red=4, green=5, blue=6;
const int buzz = 7;
int pulseValue;
float distance;
void setup( ) {
pinMode(echoPin, INPUT);
pinMode(triggerPin, OUTPUT);
pinMode(red, OUTPUT);
pinMode(green, OUTPUT);
pinMode(blue, OUTPUT);
pinMode(buzz, OUTPUT);
Serial.begin(9600);
}
void loop( )
{

digitalWrite(triggerPin, LOW);
delayMicroseconds(5);
digitalWrite(triggerPin, HIGH);
delayMicroseconds(10);
pulseValue=pulseIn(echoPin, HIGH);
distance=(pulseValue*0.0001657*39.37);

if (distance<=5)
{
  digitalWrite(red, HIGH);
  digitalWrite(green, LOW);
  digitalWrite(blue, LOW);
  tone(buzz, 500);
}

else if (distance<=10)
{
  digitalWrite(green, HIGH);
  digitalWrite(red, LOW);
  digitalWrite(blue, LOW);
  tone(buzz, 1000);
```

```
  }
  else
  {
    digitalWrite(blue, HIGH);
    digitalWrite(red, LOW);
    digitalWrite(green, LOW);
    tone(buzz, 1500);
  }

  Serial.print(distance);
  Serial.println(" inch/es");
  delay(500);
  }
```