

ASSIGNMENT 1

Date	19 September 2022
Team ID	PNT2022TMID25294
Name	DHARSHANA 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);
}
```

