ASSIGNMENT-1

Date	16 September 2022
Team ID	PNT2022TMID33093
Project Name	Project - IoT Based Smart Crop Protection System for Agriculture
Maximum Marks	2 Marks

```
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(bluzz, 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);
}
```

Output:

