Assignment Date	14.09.2022
Student Name	K.A.Zennera Fathima
Student RollNo	820419205070
Maximum Marks	2 Marks

```
QUESTION:
Smart Home
SOLUTION:
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);
```

