Assignment -1

Assignment Date	05 September 2022
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Question-1:

Create a simple Home Automation application using Arduino.

Arduino Code:

```
void setup()
{
  Serial.begin(9600);
  pinMode(13, OUTPUT);
  pinMode(3, OUTPUT);
  pinMode(2, INPUT);
  pinMode(7, OUTPUT);
}

void loop()
{
  digitalWrite(3,0);
  digitalWrite(3,1);
  delayMicroseconds(10);
  digitalWrite(3,0);
  float dur= pulseIn(2,1);
  float dis=(dur * 0.0343)/2;
  if(dis<65.00)
  {
    digitalWrite(13,1);
    digitalWrite(7,1);
    delay(1000);
    digitalWrite(13,0);
```

```
  digitalWrite(7,0);

  delay(1000);

 }

}
```

OUTPUT :