

### 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 :**

