**Assignment -1**

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| Assignment Date | 05 September 2022 |
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| Student Roll Number | 921319104233 |

**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 :**

