ASSIGNMENT – 1

Home Automation

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| --- | --- |
| Assignment Date | 8th September, 2022 |
| Student Name | Deepajothi s.k |
| Register Number | 2019504016 |
| Maximum Marks | 2Marks |

**Question**

Home Automation using Tinkercad.

**Design**

**Components Used**

|  |  |
| --- | --- |
| Name of the component | Quantity |
| Arduino ide | 1 |
| PIR Sensor | 1 |
| LED | 1 |
| Peizo | 1 |
| TMP36 | 1 |

**Arduino Code**

int PIR = 0;

int HIGH2 = 0;

int TMP = 0;

void setup()

{

pinMode(A1, INPUT);

Serial.begin(9600);

pinMode(2, INPUT);

pinMode(12, OUTPUT);

pinMode(11, OUTPUT);

}

void loop()

{

TMP = -40 + 0.488155 \* (analogRead(A1) - 20);

Serial.println(TMP);

PIR = digitalRead(2);

Serial.println(PIR);

delay(100); // Wait for 100 millisecond(s)

if (PIR == 1) {

digitalWrite(12, HIGH);

} else {

digitalWrite(12, LOW);

}

if (TMP > 35) {

digitalWrite(11, HIGH);

} else {

digitalWrite(11, LOW);

}

}