

Assignment -1
Home automation using Tinker CAD

Assignment Date	19 September 2022
Student Name	Ms. S. HARIPRIYA
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Maximum Marks	2 Marks

Question-1:

Assignment 1: Make a Smart Home in Tinker cad, using 2+ sensors, Led, Buzzer in single code and circuit.

Solution:

```
int LEDwhite = 10;

int DO_Sensor = 8;

int Sensitivity = 0;

//int relay = 7;

void setup() {

  pinMode(LEDwhite, OUTPUT);

  pinMode(DO_Sensor, INPUT);

  //pinMode(relay, OUTPUT);

}

void loop() {

  Sensitivity = digitalRead(DO_Sensor);

  if (Sensitivity == HIGH)

  {

    digitalWrite(LEDwhite, HIGH);

    //digitalWrite(relay, HIGH);

    delay(30000)

  }else{

    digitalWrite(LEDwhite, LOW);

    //digitalWrite(relay, LOW);

  }

}
```

TINKERCAD Bodacious Hillar All changes saved

Code Start Simulation Send To

1 (Arduino Uno R3)

```

1 int LEDWhite = 10;
2 int DO_Sensor = 8;
3 int Sensitivity = 0;
4 //int relay = 7;
5
6
7
8 void setup() {
9   pinMode(LEDWhite, OUTPUT);
10  pinMode(DO_Sensor, INPUT);
11  //pinMode(relay, OUTPUT);
12 }
13 void loop() {
14   Sensitivity = digitalRead(DO_Sensor);
15
16   if (Sensitivity == HIGH)
17   {
18     digitalWrite(LEDWhite, HIGH);
19     //digitalWrite(relay, HIGH);
20     delay(30000);
21   }
22   else{
23     digitalWrite(LEDWhite, LOW);
24     //digitalWrite(relay, LOW);
25   }
26 }
27

```

Serial Monitor

TINKERCAD ASSIGNMENT1 All changes saved

Code Stop Simulation Send To

Simulator time: 00:00:03

PIR Sensor

Name	Value
Target X	-39.67
Target Y	-321.31
Target Y	-213.01
Target Y	-330.10

Components Basic

Search

Resistor LED Pushbutton

Potentiometer Capacitor Slideswitch

9V Battery Coin Cell 3V Battery 1.5V Battery

Breadboard micro:bit Arduino Uno

Link: <https://www.tinkercad.com/things/4ni0ae1OgZS>