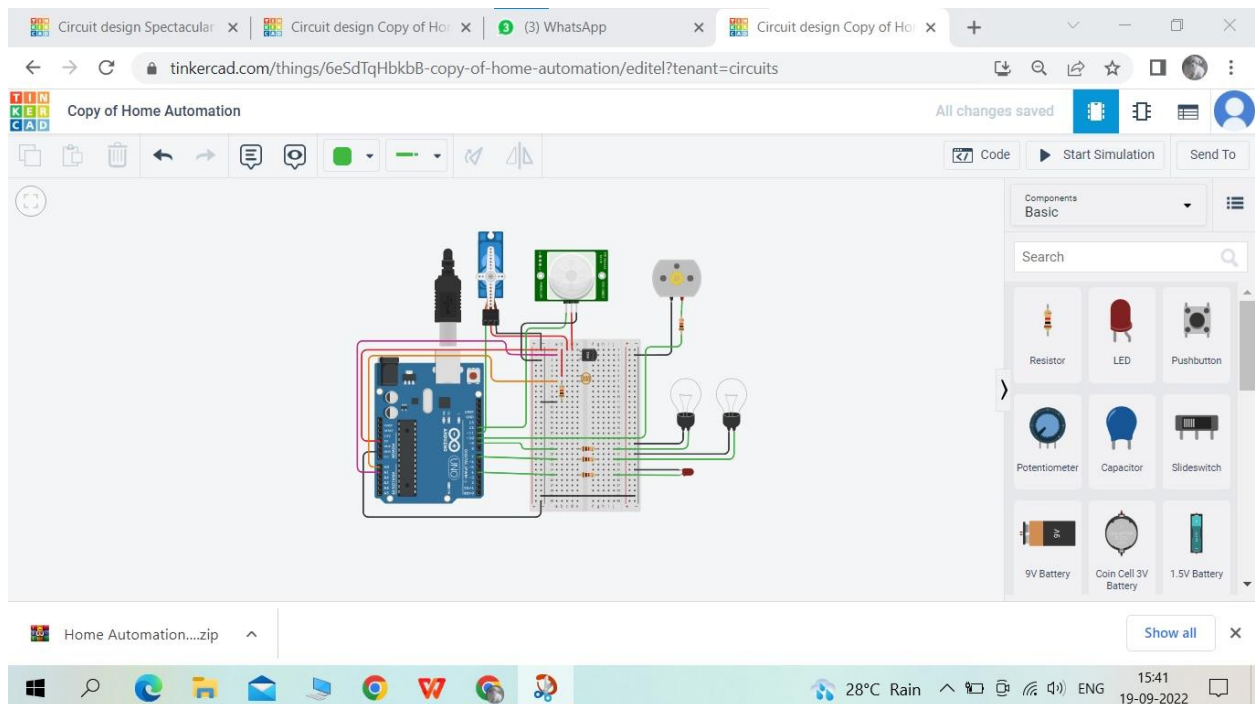


## Assignment -1

### Home automation using sensors

Assignment Date	19 September 2022
Student Name	Deepika.R
Student Roll Number	410819106001
Maximum Marks	2 Marks



Circuit design Spectacular x Circuit design Copy of Ho x (3) WhatsApp x Circuit design Copy of Ho x

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Copy of Home Automation

All changes saved

Code Start Simulation Send To

Text 1 (Arduino Uno R3)

```

1
2
3 #include <Servo.h>
4 const int ldrPin = A0;
5 const int tmpPin = A1;
6 const int motor = 10;
7 const int light = 9;
8 const int light2 = 7;
9 const int led = 4;
10
11 int rip = 0;
12 int servo = 0;
13 Servo servo_11;
14
15 int i;
16 void setup() {
17   pinMode(ldrPin, INPUT);
18   pinMode(tmpPin, INPUT);
19   pinMode(motor, OUTPUT);
20   pinMode(light, OUTPUT);
21   pinMode(light2, OUTPUT);
22   pinMode(led, OUTPUT);
23   Serial.begin(9600);
24   pinMode(12, INPUT);
25 }

```

Serial Monitor

Home Automation....zip

Show all

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Code Start Simulation Send To

Text 1 (Arduino Uno R3)

```

23 Serial.begin(9600);
24 pinMode(12, INPUT);
25 pinMode(11, INPUT);
26 servo_11.attach(11, 500, 2500);
27
28 void loop() {
29   int ldrStatus = analogRead(ldrPin);
30   int tmpStatus = analogRead(tmpPin);
31   Serial.print("LDR");
32   Serial.print("TMP");
33   Serial.println(ldrStatus);
34   Serial.println(tmpStatus);
35
36   Serial.println(rip);
37   rip = digitalRead(12);
38   servo = digitalRead(11);
39   if (rip == 1) {
40     servo_11.write(180);
41   } else {
42     servo_11.write(0);
43   }
44   if (-40 + 0.488155 * (tmpStatus - 20) > 28) {
45     analogWrite(motor, 255);
46   }

```

Serial Monitor

Home Automation....zip

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Code Start Simulation Send To

Text 1 (Arduino Uno R3)

```
45 analogWrite(motor,255);
46 } else {
47   analogWrite(motor,0);
48 }
49 if (ldrStatus> 610 && ldrStatus<=679 ) {
50   analogWrite(light,0);
51   analogWrite(light2,0);
52   for(i=0;i<=12;i++)
53   {
54     analogWrite(led,255);
55     delay(500);
56     analogWrite(led,0);
57   }
58 }
59 else if(ldrStatus> 544 && ldrStatus<=610 ){
60   analogWrite(light,255);
61   analogWrite(light2,0);
62   analogWrite(led,0);
63 }
64 else if(ldrStatus> 409 && ldrStatus<=544 ){
65   analogWrite(light,255);
66   analogWrite(light2,0);
67   analogWrite(led,0);
68 }
```

Serial Monitor

Home Automation....zip

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All changes saved

Code Start Simulation Send To

Text 1 (Arduino Uno R3)

```
63 }
64 else if(ldrStatus> 409 && ldrStatus<=544 ){
65   analogWrite(light,255);
66   analogWrite(light2,0);
67   analogWrite(led,0);
68 }
69 else if(ldrStatus> 274 && ldrStatus<=409){
70   analogWrite(light,255);
71   analogWrite(light2,0);
72   analogWrite(led,0);
73 }
74 else if(ldrStatus>=139 && ldrStatus<=274 ){
75   analogWrite(light,255);
76   analogWrite(light2,0);
77   analogWrite(led,0);
78 }
79 else if(ldrStatus >= 6 && ldrStatus<=139 ){
80   analogWrite(light,255);
81   analogWrite(light2,255);
82   analogWrite(led,0);
83   delay(1000);
84 }
85 }
86 }
```

Serial Monitor

Home Automation....zip

Show all

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All changes saved

Simulator time: 00:01:21

Code Stop Simulation Send To

PIR Sensor

Name	1
Target X	-3.21
Target Y	-143.74
Target Z	-174.88

Components Basic

Search

Resistor LED Pushbutton

Potentiometer Capacitor Slideswitch

9V Battery Coin Cell 3V Battery 1.5V Battery

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