

Assignment -1
Tinkercad Design

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|---------------------|---------------------------|
| Assignment Date | 10 September 2022 |
| Student Name | Mr. Ranga krishna prasadh |
| Student Roll Number | CITC1904106 |
| Maximum Marks | 2 Marks |

Question-1:

Make a Smart Home in Tinkercad, using 2+ sensors, Led, Buzzer in single code and circuit using Arduino.

Solution:

```
#include<Wire.h>
#include<IRremote.h>
#include<SPI.h>

IRrecv irrecv(12);
decode_results results;

void setup()
{
  Serial.begin(9600);
  irrecv.enableIRIn();

  pinMode(7, OUTPUT);//auto bulb
  pinMode(5, OUTPUT);//remote bulb
  pinMode(4, OUTPUT);//buzzer
  pinMode(13, INPUT);//IR SENSOR
  pinMode(12, INPUT);//TEMP
}

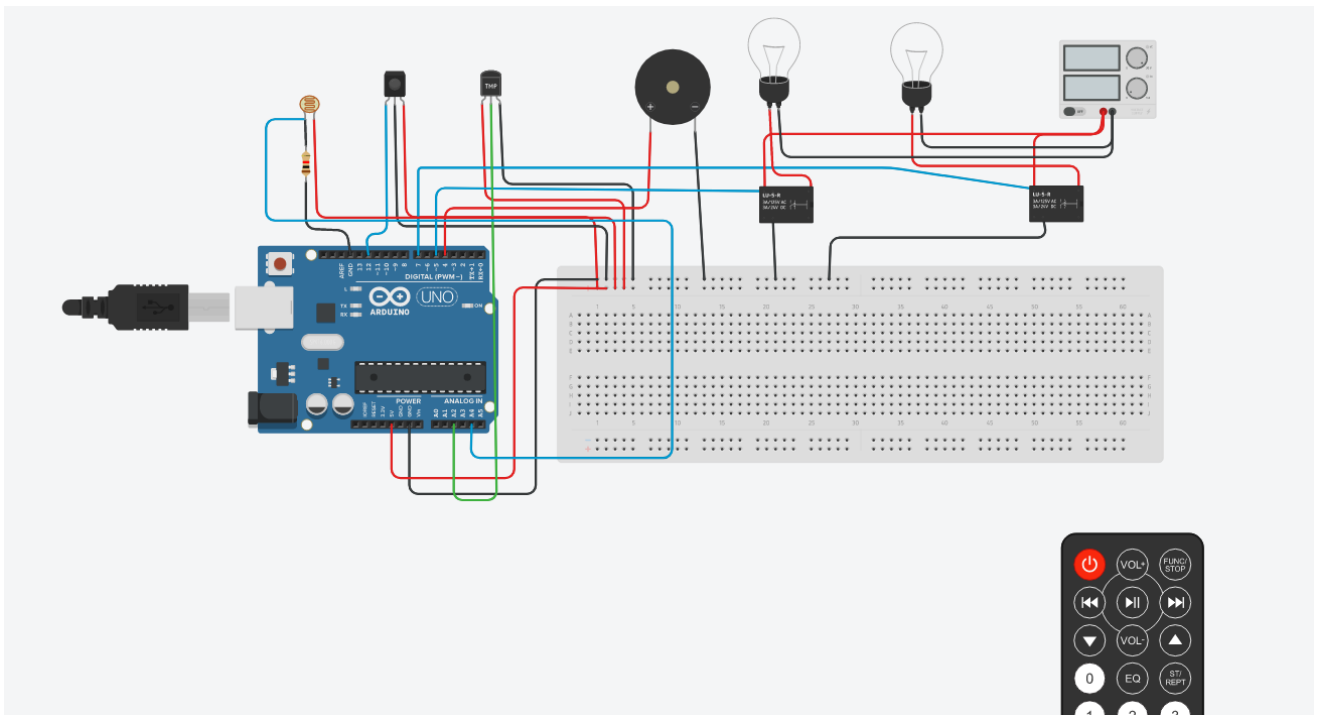
void loop()
{
  int temp=analogRead(2);
  if(temp>50)
  {
    Serial.println(temp);
    digitalWrite(4,HIGH);
  }
  else
  {
    Serial.println("temp");
    Serial.println(temp);
    digitalWrite(4,LOW);
  }

  if (irrecv.decode(&results)){
    int value = results.value;
    Serial.println(value);
    switch(value)
```

```

{
    case 2295: //Keypad button "1"
        digitalWrite(5,HIGH);
        break;
    case 225: digitalWrite(5,LOW);
        break;
    default: digitalWrite(5,LOW);
}
irrecv.resume();
}
int photoresis=analogRead(4);
if(photoresis>500)
{
    Serial.println(photoresis);
    digitalWrite(7,HIGH);
}
else
{
    Serial.println("photoresis");
    Serial.println(photoresis);
    digitalWrite(7,LOW);
}
delay(1000); // Wait for 1000 millisecond(s)
}

```



Link: <https://www.tinkercad.com/things/i74HvHwAGY2-dazzling-sango-blad/editel?sharecode=iIT-hdX2c-GbBU80CVO7eBQrbYTPxG9Gbb1Qco4iFhM>