# Assignment -1 SMART HOME USING TINKERCAD

Assignment Date	21 September 2022
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Maximum Marks	2 Marks

### Question-1:

MAKE A SMART HOME IN TINKERCAD, 2 SENSORS LED, BUZZER IN SINGLE CODE CIRCUIT.

#### **Solution:**

## 1. Circuit Diagram:

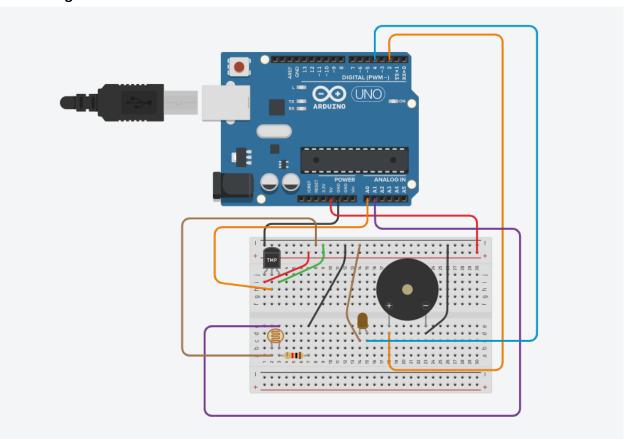


fig 1 : Circuit Construction

#### 2. Implementation Code:

```
int temperaturePin = 0;
int buzzer = 2;
int led = 4;
void setup()
Serial.begin(9600);
pinMode(buzzer, OUTPUT);
pinMode(led, OUTPUT);
void loop()
float temperature;
int lightRead = analogRead(A1);
temperature = analogRead(temperaturePin);
temperature = temperature * 0.48828125;
Serial.println("Temperature : ");
Serial.println(temperature);
Serial.println("Light:");
Serial.println(lightRead);
if(temperature>74){
digitalWrite(buzzer, HIGH);
}
else{
digitalWrite(buzzer, LOW);
if(lightRead<900){
digitalWrite(led, HIGH);
else{
digitalWrite(led, LOW);
}
}
```

## 3. Working of circuit

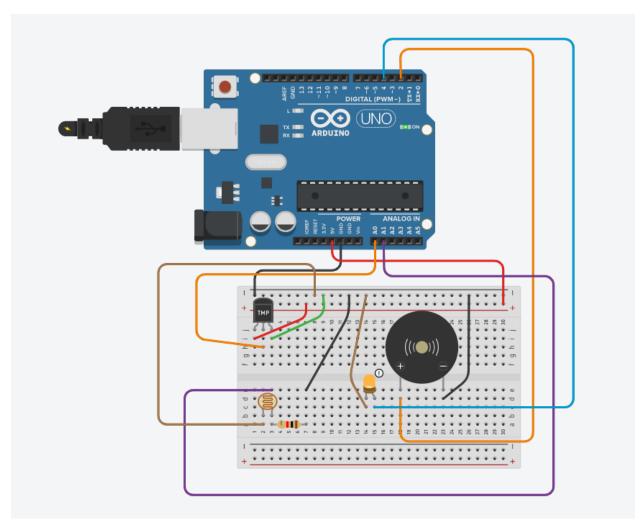


fig 2 : Circuit Working