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:

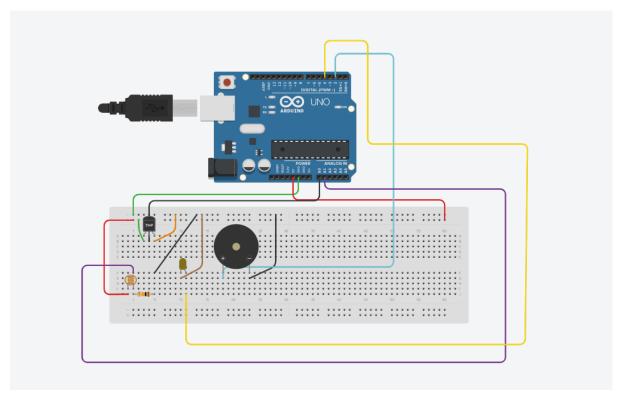


fig 1 : Circuit Construction

2. Implementation Code:

```
int tempPin = 0;
int buzzerPin = 2;
int ledOut = 4;
void setup()
Serial.begin(9600);
pinMode(buzzerPin, OUTPUT);
pinMode(ledOut, OUTPUT);
}
void loop()
{
float temp;
int lightVal = analogRead(A1);
temp = analogRead(tempPin);
temp = temp * 0.48828125;
Serial.print("TEMPERATURE = ");
Serial.print(temp);
Serial.print("*C");
Serial.println();
Serial.println(lightVal);
if(temp>74){}
digitalWrite(buzzerPin, HIGH);
}
else{
digitalWrite(buzzerPin, LOW);
if(lightVal<900){
digitalWrite(ledOut, HIGH);
}
else{
digitalWrite(ledOut, LOW);
}
}
```

3. Working of circuit

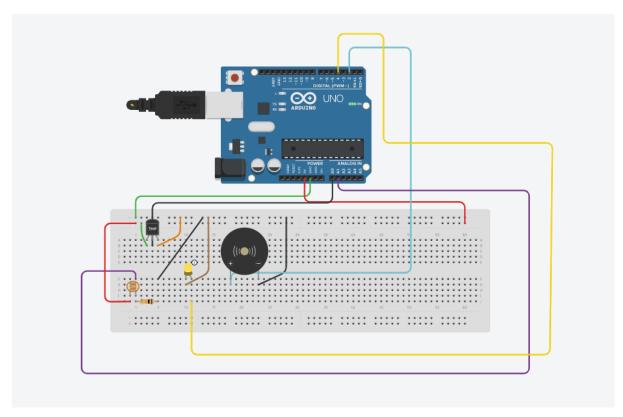


fig 2 : Circuit Working