#### Assignment -1

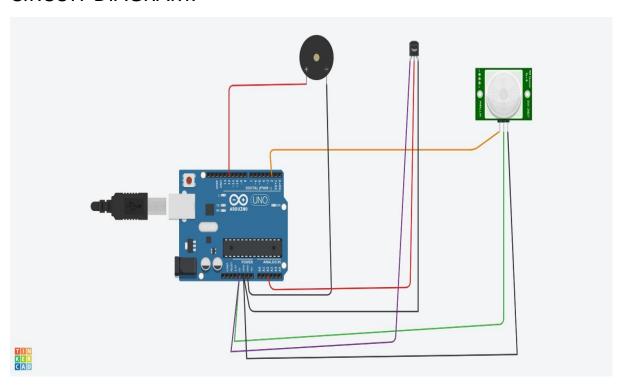
Assignment Date	19 September 2022
Student Name	Duggi Reddy Srinivasa Reddy
Student Roll Number	111519106029
Maximum Marks	2 Marks

## Question:

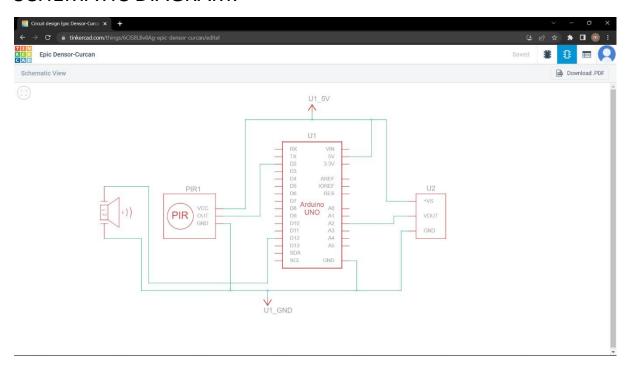
Build a smart home in Thinkercad with 2 sensors, an Led, buzzer and submit it.

## **Solution:**

# **CIRCUIT DIAGRAM:**



#### **SCHEMATIC DIAGRAM:**



```
Code:
// C++ code
// void setup()
{
Serial.begin(9600);
pinMode(2, INPUT);
pinMode(12,
OUTPUT);
}
void loop()
{
```

```
intmotion=digitalRe
ad(2);
if(motion==1)
 {
  Serial.println("Motion is
Detected !"); tone(12,10);
delay(1000);
  noTone(12);
delay(3000);
else
 {
  Serial.println("No Motion!!!");
delay(1000);
 }
 double
data=analogRead(A2);
double n=data/1024;
double voltage=n*5;
double
offsetvol=voltage-0.5;
double
```

```
temp=offsetvol*100;
if(temp>60)
 {
  Serial.println("Temperature higher than
60 degrees !!"); Serial.println(temp);
tone(12,10); delay(1000); noTone(12);
  delay(3000);
 }
else
 {
  Serial.println("Temperature lesser than 60
degrees !!"); Serial.println(temp);
delay(1000);
}
```