Assignment -1

Assignment Date	06 November 2022
Student Name	Ms.K.Suriya
Student Roll Number	821719106026
Maximum Marks	2 Marks

Question-1:

　　　Build a smart home in thinkercad with 2 sensors, an LED , buzzer.
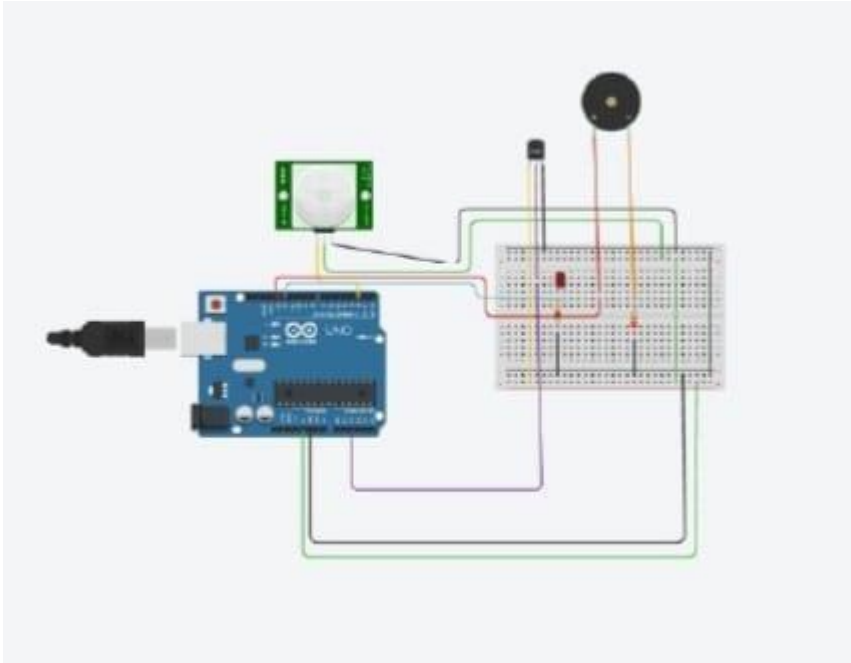
Coding:

```
int pinSensor =2;
int pinLed =12;
int pinBuzzer =13;
int pirSensor =0;

void setup()
{
  Serial.begin(9600);
  pinMode(pinSensor, INPUT);
  pinMode(pinLed, OUTPUT);
  pinMode(pinBuzzer, OUTPUT);

}

void loop()
{

  double avalue=analogRead(A2);
```

```
   Serial.print("avalue is : ");
    Serial.println(avalue);
double ca= avalue/1024;
double v= ca* 5;
Serial.print("voltage is:");
Serial.println(v);
double o =v-0.5;
   Serial.print("offset voltage:");
Serial.println(o);
pirSensor = digitalRead(pinSensor);
if (pirSensor == HIGH)
{

   digitalWrite(pinLed, HIGH);
   tone(pinBuzzer, 1000, 500);


}

else {

     digitalWrite(pinLed, LOW);
}

delay(10);
}
```
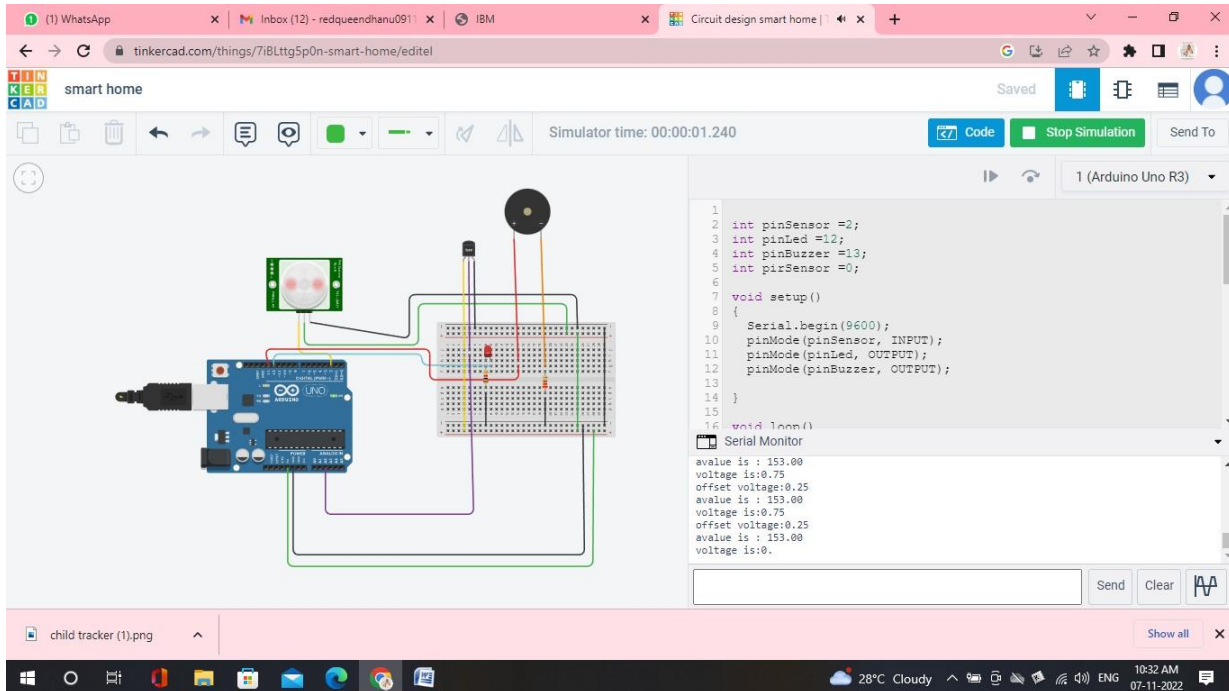
Output :