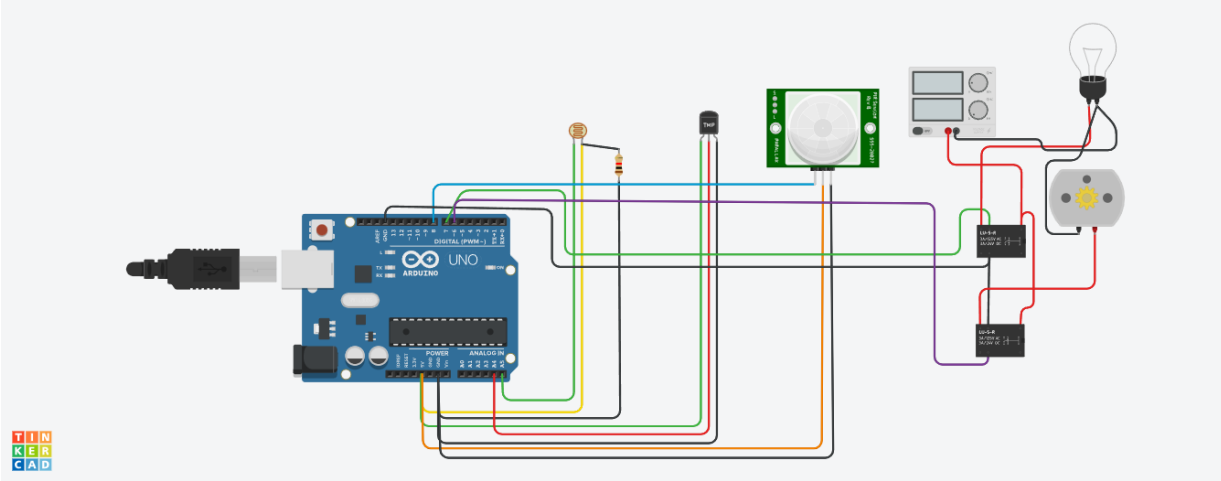
Assignment -1

Assignment Date	19 September 2022
Student Name	Ramprakash R
Student Roll Number	812019106024
Maximum Marks	2 Marks

Question-1:

Build a Smart Home in Tinkercad with 2 sensors,an Led,buzzer and submit it.

Solution:



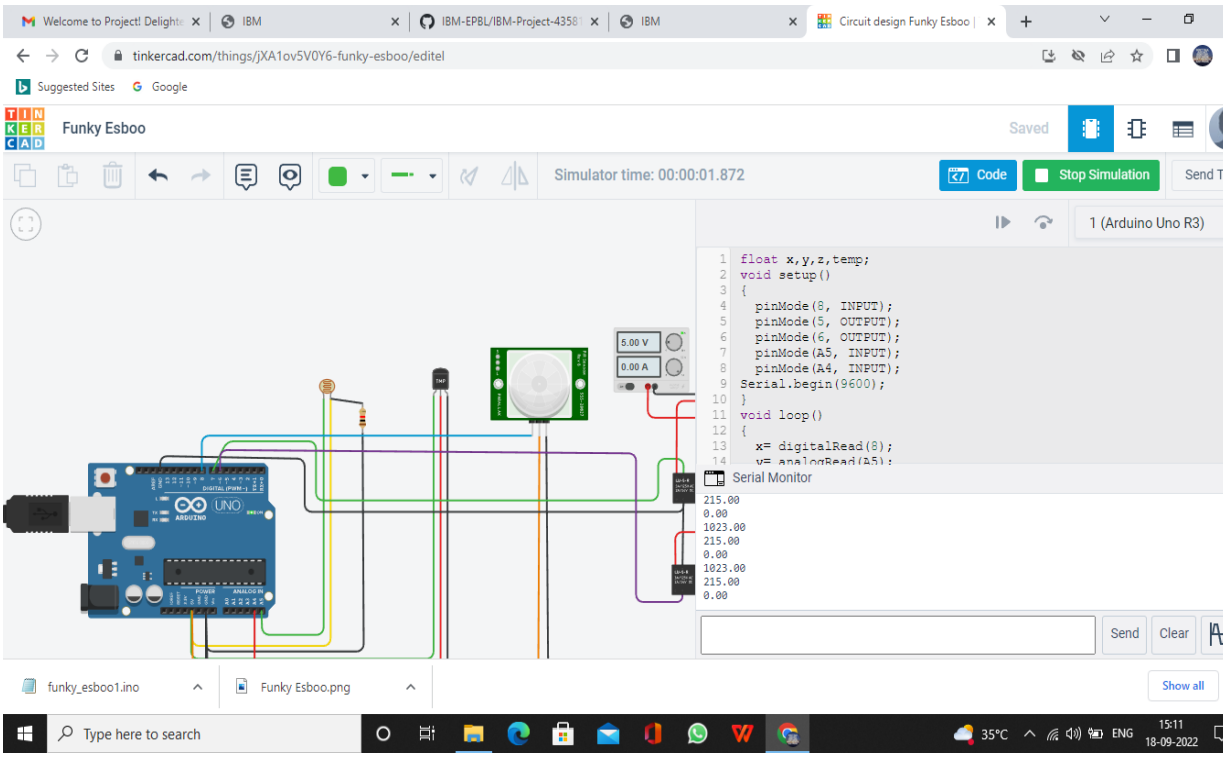
SOURCE CODE:

```
float x,y,z,temp;

void setup()

{

pinMode(8, INPUT);

pinMode(5, OUTPUT);

pinMode(6, OUTPUT);

pinMode(A5, INPUT);

pinMode(A4, INPUT);

Serial.begin(9600);

}

void loop()

{
```

```
  x= digitalRead(8);
  y= analogRead(A5);
  z= analogRead(A4);
Serial.println(x);
Serial.println(y);
Serial.println(z);
  temp = (double)z / 1024;
  temp = temp * 5;
  temp = temp - 0.5;
  temp = temp * 100;
  if ( (x>0) )
  {
    if ((y<550)&&(temp>30))
    {
digitalWrite(5, HIGH);
digitalWrite(6, HIGH);
    }
    else if((y<550)&&(temp<30))
    {
digitalWrite(5, HIGH);
digitalWrite(6, LOW);
    }
    else if((y>550)&&(temp>30))
    {
digitalWrite(5, LOW);
digitalWrite(6, HIGH);
    }
```

```
   else if((y>550)&&(temp<30))
   {
digitalWrite(5, LOW);
digitalWrite(6, LOW);
   }
  }
  else
  {
digitalWrite(5, LOW);
digitalWrite(6, LOW);
  }
}
```

Serial Monitor:



Link:

https://www.tinkercad.com/things/jXA1ov5V0Y6-funky-esboo/editel?sharecode=cwcnr2gth-xhPjyOoK_8Yptsnw-Zz4xZPGYW4rQe4fs.