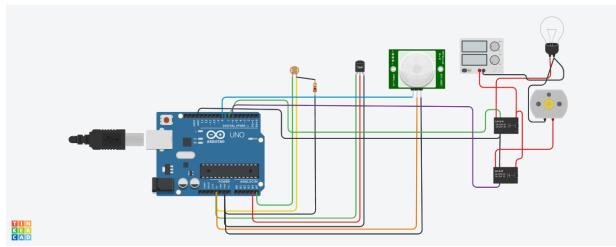
Assignment -1

Assignment Date	19 September 2022
Student Name	Sabarishkumar S
Student Roll Number	812019106301
Maximum Marks	2 Marks

Question-1:

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

Solution:



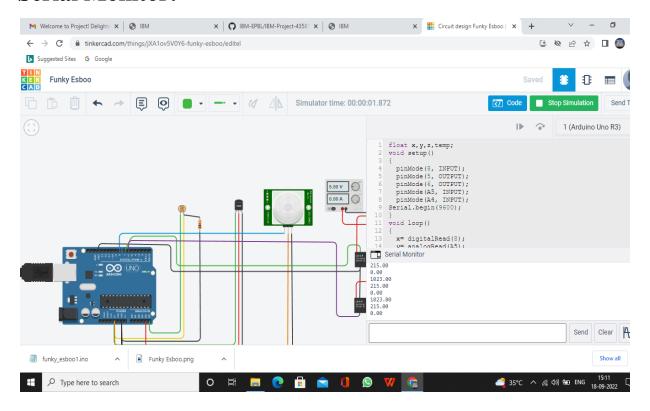
SOURCE CODE:

```
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);
}</pre>
```

Serial Monitor:



Link:

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