IBM ASSIGNMENT 1

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

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))</pre>
      digitalWrite(5, HIGH);
      digitalWrite(6, LOW);
    else if((y>550)&&(temp>30))
      digitalWrite(5, LOW);
      digitalWrite(6, HIGH);
    else if((y>550)&&(temp<30))</pre>
```

```
{
    digitalWrite(5, LOW);
    digitalWrite(6, LOW);
}
else
{
    digitalWrite(5, LOW);
    digitalWrite(6, LOW);
}
```

