ASSIGNMENT-1

Assignment Date	30 October 2022
Student Name	VIPIN L
Roll Number	715519106059
Maximum Marks	2 Marks

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

```
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);
        }
      }
```

OUTPUT: