## Assignment-1

## Question-1:

Make a Smart Home in Tinkercad, using 2+ sensors, Led, Buzzer in single code and circuit.

Solution:

```
Code:

void setup()
{
    Serial.begin(9600);
    pinMode(4,INPUT);
    pinMode(8,OUTPUT);
    pinMode(13,OUTPUT);
}

void loop()
{
    int p=digitalRead(4);
    Serial.println(p);
    if(p)
    {
        digitalWrite(13,1);
        Serial.println("motion detected");
```

```
}
delay(1000);
double a=analogRead(A0);
double t=(((a/1024)*5)-0.5)*100;

Serial.println(t);
if(t>25)
{
digitalWrite(8,1);
Serial.println("temperature greater than 25");
delay(1000);
}
```

## Circuit:

