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: