Aim Make a smart home in Tinkercad using two are more sensors ,LED ,Buzzer in single code and circuit. Program

```
int trigger_pin=2;
int echo_pin=3;
int time; int distance;
void setup() { Serial.begin(9600);
pinMode(trigger_pin,OUTPUT);
pinMode(echo_pin,INPUT);
pinMode(4,INPUT);
pinMode(13,OUTPUT);
}
void loop()
{
digitalWrite(trigger_pin,HIGH);
delayMicroseconds(10);
digitalWrite(trigger_pin,LOW);
time=pulseIn(echo_pin,HIGH);
distance=(time*0.034)/2;
if(distance<=10) { Serial.println("Door open");</pre>
Serial.print("Distance=");
Serial.println(distance);
delay(500);
}
```

```
Else
{
Serial.println("Door closed");
Serial.print("Distance=");
Serial.println(distance);
delay(500);
int p=digitalRead(4);
if(p) { digitalWrite(13,HIGH);
Serial.println("motion detected");
}
Else
{
digitalWrite(13,LOW);
Serial.println("not detected");
}
}
}
```

OUTPUT:

