```
ASSIGNMENT-1
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");
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:
By
R.jenifer
```