## **ASSINGMENT NO:1**

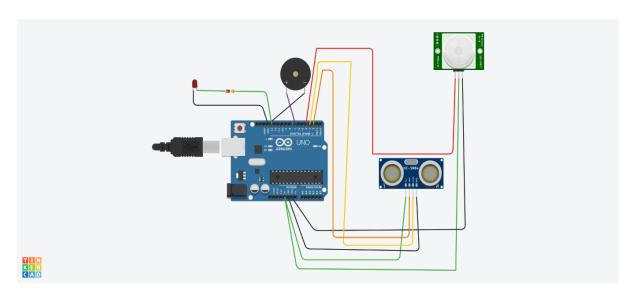
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**TOPIC: SMART HOME** 



## **TINKER CAD**

## **CODE:**

int trigger\_pin=2;

int echo\_pin=3;

int buzzer\_pin=7;

int time;

int distance;

void setup()

```
{
 Serial.begin(9600);
 pinMode(trigger_pin,OUTPUT);
 pinMode(echo_pin,INPUT);
 pinMode(4,INPUT);
 pinMode(13,OUTPUT);
 pinMode(buzzer_pin,OUTPUT);
 pinMode(7,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(10);
 else{
```

```
Serial.println("DOOR CLOSED");
 Serial.print("Distance:");
 Serial.println(distance);
 digitalWrite(7,LOW);
 delay(10);
int p=digitalRead(4);
 if(p){
  digitalWrite(13,HIGH);
  digitalWrite(7,HIGH);
  Serial.println("MOTION DETECTED");
 }
 else{
  digitalWrite(13,LOW);
  digitalWrite(7,LOW);
  Serial.println("not dected");
}
```