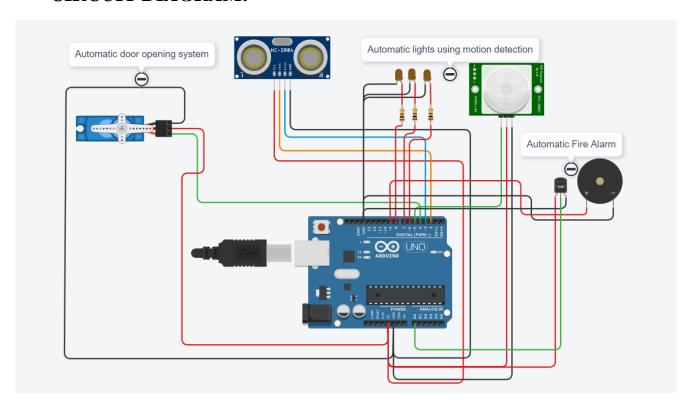
CIRCUIT DIAGRAM:



CODE:

#include <Servo.h>

Servo s;

int trig=2;

int ec=3;

int PIR=5;

int led1=6;

int led2=7;

int led3=8;

int buzz=9;

void setup()

```
Serial.begin(9600);
 pinMode(trig,OUTPUT);
 pinMode(ec,INPUT);
 pinMode(PIR,INPUT);
 pinMode(led1,OUTPUT);
 pinMode(led2,OUTPUT);
 pinMode(led3,OUTPUT);
 pinMode(buzz,OUTPUT);
 s.attach(4);
 s.write(0);
 digitalWrite(led1,LOW);
 digitalWrite(led2,LOW);
 digitalWrite(led3,LOW);
void autodoor()
digitalWrite(trig,LOW);
digitalWrite(trig,HIGH);
delayMicroseconds(10);
digitalWrite(trig,LOW);
float duration = pulseIn(ec,HIGH);
float dist = (duration*0.0343)/2;
```

```
//Serial.println(dist);
if(dist<100)
 open();
void open()
 for (int i=0;i<=90;i++)
   s.write(i);
   delay(100);
  }
 delay(5000);
 for (int j=90;j>=0;j--)
  {
   s.write(j);
   delay(100);
void autolight()
```

```
int p = digitalRead(5);
 if(p)
 {
  digitalWrite(led1,HIGH);
  digitalWrite(led2,HIGH);
  digitalWrite(led3,HIGH);
  delay(5000);
  digitalWrite(led1,LOW);
  digitalWrite(led2,LOW);
  digitalWrite(led3,LOW);
void firealarm()
{
 double a = analogRead(A0);
 double t = (((a/1024)*5)-0.5)*100;
 Serial.println(t);
 if(t > 60)
 {
  tone(buzz,20000);
  delay(10000);
  noTone(9);
```

```
void loop()
autodoor();
delay(1000);
autolight();
delay(1000);
firealarm();
delay(1000);
□ □ tinkercad.com/things/jyY8s3QH3bG-glorious-wolt/editel?tenant=circuits
KER SMART HOME
void autoright()
                                                         int p = digitalRead(5);
if(p)
```