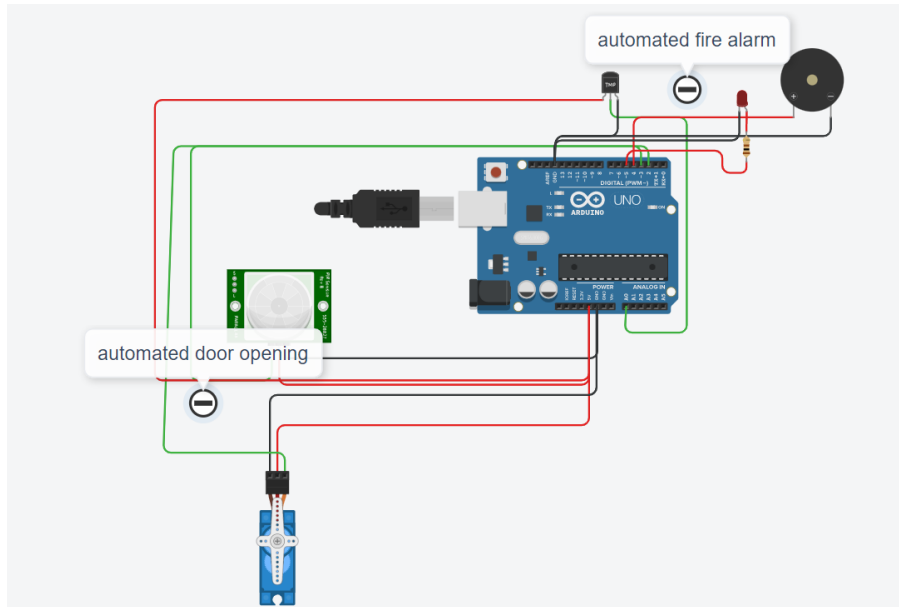


Name : Pavithra P

Reg No: 2019504042

Title : smart home



Code :

```
#include <Servo.h>
```

```
Servo s;
```

```
int motion=2;
```

```
int buz=4;
```

```
int led=5;
```

```
void setup()
```

```
{
```

```
  Serial.begin(9600);
```

```
  pinMode(motion,INPUT);
```

```
  pinMode(led,OUTPUT);
```

```
  pinMode(buz,OUTPUT);
```

```
  s.attach(3);
```

```
  s.write(0);
```

```
    digitalWrite(led,LOW);
}
void door()
{
    int a=digitalRead(2);
    if(a)
    {
        openclose();
    }
}
void openclose()
{
    for(int i=0;i<=90;i++)
    {
        s.write(i);
        delay(100);
    }
    delay(1000);
    for(int j=90;j>=0;j--)
    {
        s.write(j);
        delay(100);
    }
}
void fire()
{
    double b=analogRead(A0);
    double t=(((b/1024)*5)-0.5)*100;
    Serial.println(t);
}
```

```
if(t>50)
{
    tone(buz,15000);
    digitalWrite(led,HIGH);
    delay(5000);
    noTone(buz);
    digitalWrite(led,LOW);
}
}
```

```
void loop()
{
    door();
    delay(1000);
    fire();
    delay(1000);

}
```