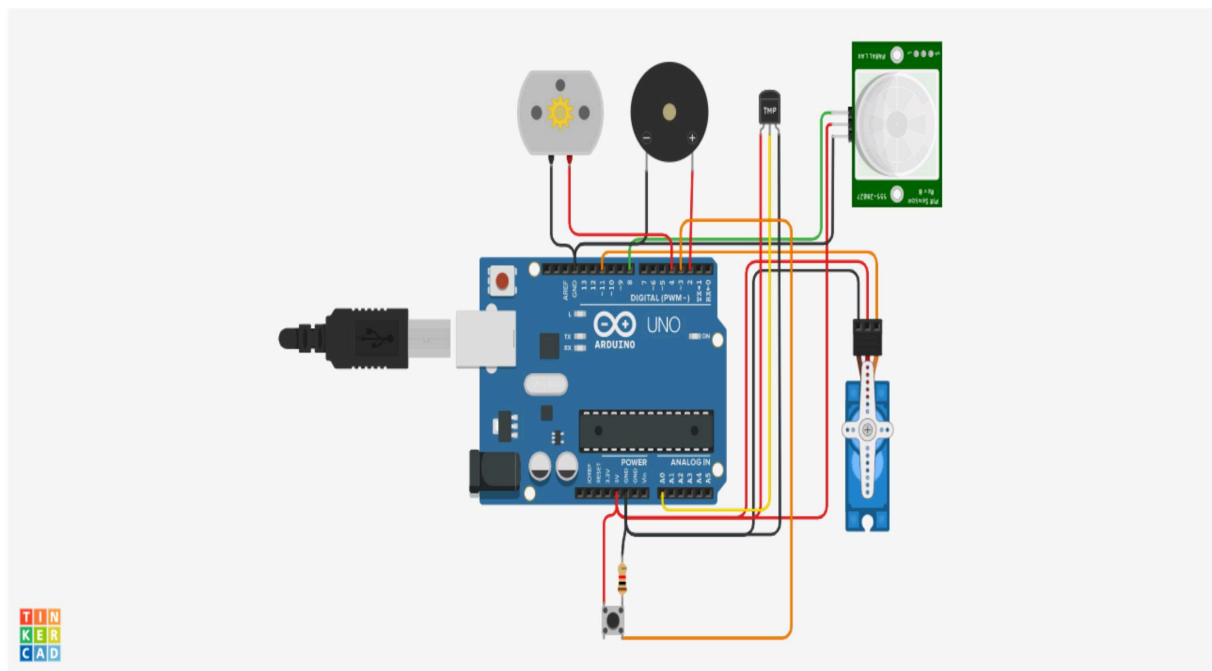


# SMART HOME

## CIRCUIT DIAGRAM:



## ARDUINO CODE:

```
#include<Servo.h>

#define Temp_Sensor A0
#define PIR_Sensor 8
#define Push_Button 3
#define Servo_motor 11
#define Piezo_Buzzer 2
#define Air_Conditioner 4

Servo s;

void setup()
{
    s.attach(Servo_motor);
    pinMode(Temp_Sensor,INPUT);
    pinMode(Push_Button,INPUT);
    pinMode(PIR_Sensor,INPUT);
    pinMode(Piezo_Buzzer,OUTPUT);
    pinMode(Air_Conditioner,OUTPUT);
    Serial.begin(9600);
}

void loop()
{
    int i=analogRead(Temp_Sensor);
    int j=digitalRead(Push_Button);
    Serial.println(i);
    if(i>100)
    {
        digitalWrite(Air_Conditioner,HIGH);// Room Temparture Will HIGH, Air Conditioner will ON
    }
}
```

```

else
{
digitalWrite(Air_Conditioner,LOW); // Room Temparture Will LOW, Air Conditioner will OFF
}
if(digitalRead(PIR_Sensor)==1)
{
digitalWrite(Piezo_Buzzer,HIGH); // If Object is detected , Piezo Buzzer will Alarm
}
else
{
digitalWrite(Piezo_Buzzer,LOW); // If Object is not detected , Piezo Buzzer will not Alarm
}
if(j==1)
{
for(int k=0;k<=180;k++)
{
s.write(k); // If Button is Pressed, Door Will Open
delay(10);
}
delay(2000);
}
else
{
s.write(0); // If Button is Not Pressed, Door Will remain closed
}
}

```