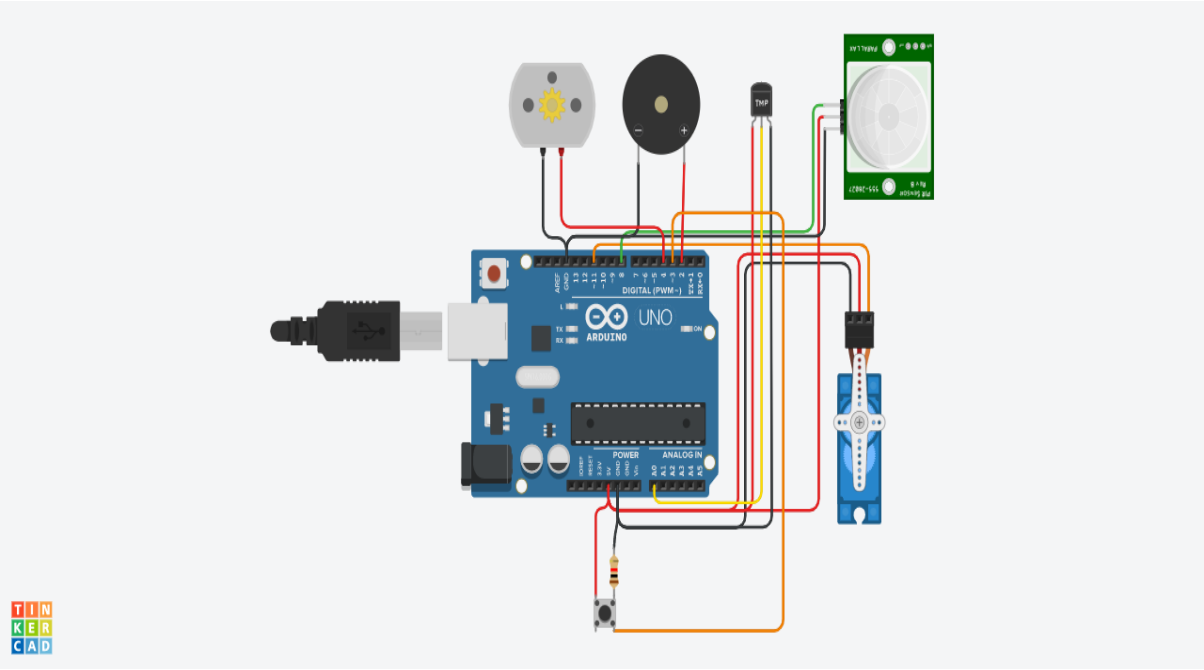
SMART HOME

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
 }
}
```