**ARDUNIO BASED IR REMOTE AND MANUAL HOME AUTOMATION**

Program:

#include <IRremote.h>  
const int RECV\_PIN = 4;  
const int bulb = 13;  
const int fan = 12;  
int togglestate1 = 0;  
int togglestate2 = 0;  
IRrecv irrecv(RECV\_PIN);  
decode\_results results;  
  
void setup()  
{  
  irrecv.enableIRIn();  
  pinMode(bulb, OUTPUT);  
  pinMode(fan, OUTPUT);  
}  
  
void loop()  
{  
    if (irrecv.decode(&results))  
  {  
        switch(results.value)  
    {  
          case 0xFD08F7:  
        if(togglestate1==0){  
        digitalWrite(bulb, HIGH);  
        togglestate1=1;  
        }  
        else {  
        digitalWrite(bulb, LOW);  
        togglestate1=0;  
        }  
        break;  
     
          case 0xFD8877:  
        if(togglestate2==0){  
        digitalWrite(fan, HIGH);  
        togglestate2=1;  
        }  
        else {  
        digitalWrite(fan, LOW);  
        togglestate2=0;  
        }  
        break;  
    }  
    irrecv.resume();  
  }  
}

Link:

[https://www.tinkercad.com/things/1x9rMf18qdK-smart-home-automation/editel?sharecode=0eFnSk-KFRR0eixZi8M0owly\_9Qu6Z4HTz05YEAHZDQ](https://www.tinkercad.com/things/1x9rMf18qdK-smart-home-automation/editel?sharecode=0eFnSk-KFRR0eixZi8M0owly_9Qu6Z4HTz05YEAHZDQ" \t "https://mail.google.com/mail/u/0/" \l "inbox/_blank)

