

//----Remote Control Electric Switch Board Project (Home Automation)-----

//-----For more details visit here-----

//-----<https://youtube.com/c/IdeasTV>-----

//-----<https://www.facebook.com/IdeasTvOfficial/>-----

#include <IRremote.h>

int voltage[12];

unsigned int i = 0;

IRrecv irrecv(12); //-----Connect IR signal Pin on 12

decode\_results results;

unsigned long key\_value = 0;

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void setup(){

    Serial.begin(9600);

    SetUpPins();

    irrecv.enableIRIn();

    irrecv.blink13(true);

}

void loop(){

    TranslateIR();

}

//-----Triger relay module-----

void trigerrelay(int pin) {

```
if (voltage[pin]) {  
    Serial.print("relay ");  
    Serial.print(pin - 2);  
    Serial.println(" was turned off");  
    digitalWrite(pin, LOW);  
    voltage[pin] = 0;  
} else {  
    Serial.print("relay ");  
    Serial.print(pin - 2);  
    Serial.println(" was turned on");  
    digitalWrite(pin, HIGH);  
    voltage[pin] = 1;  
}  
}  
  
//-----For more details visit here-----  
  
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//-----Relay Moudle Pins-----  
  
void SetUpPins() {  
    pinMode(2, OUTPUT);  
    pinMode(3, OUTPUT);  
    pinMode(4, OUTPUT);  
    pinMode(5, OUTPUT);  
    digitalWrite(2, LOW);  
    digitalWrite(3, LOW);
```

```

digitalWrite(4, LOW);

digitalWrite(5, LOW); //-----Connect 4 channel Relay mould signal pins on 2,3,4,5
}

void TranslateIR() {
    if (irrecv.decode(&results)){

        if (results.value == 0xFFFFFFFF)

            results.value = key_value;

        switch(results.value){

            case 0xFF30CF://0 // <-----Replace this code with the hexadecimal code, generated by your own
remote
            triggerrelay(2);

            break ;

            case 0xFF18E7://1 // <-----Replace this code with the hexadecimal code, generated by your own
remote
            triggerrelay(3);

            break ;

            case 0xFF7A85://2 // <-----Replace this code with the hexadecimal code, generated by your own
remote
            triggerrelay(4);

            break ;

            case 0xFF10EF://3 // <-----Replace this code with the hexadecimal code, generated by your own
remote
            triggerrelay(5);

            break ;

        }
    }
}

```

```
key_value = results.value;

irrecv.resume();

}

}

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```