

Code for Detecting IR Signals (type of vehicles)

```
#include <IRremote.h>
int RECV_PIN = 11; //
int output1 = 3;
int output2 = 4;
int output3 = 5;
int output4 = 2;
int output5 = 6;
int itsONled[] = {0,0,0,0,0,0};
#define code1 0xFF30CF //
#define code2 0xFF18E7 //
#define code3 0xFF7A85 //
#define code4 0xFF02FD //
#define code5 0xFFC23D //
IRrecv irrecv(RECV_PIN);
decode_results results;
void setup()
{
  Serial.begin(9600); //
  irrecv.enableIRIn(); //
  pinMode(output1, OUTPUT);
  pinMode(output2, OUTPUT);
  pinMode(output3, OUTPUT);
  pinMode(output4, OUTPUT);
  pinMode(output5, OUTPUT);
}
void loop() {
  if (irrecv.decode(&results)) {
    unsigned int value = results.value;
    switch(value) {
      case code1:
        if(itsONled[1] == 1) { //
          digitalWrite(output1, LOW); //
          itsONled[1] = 0; //
        } else { //
          digitalWrite(output1, HIGH); //
          delay(100);
          digitalWrite(output1, LOW);
          delay(100);
        }
      }
    }
  }
}
```

```
    digitalWrite(output1, HIGH); //
    delay(100);
    digitalWrite(output1, LOW);
    delay(100);
    digitalWrite(output1, HIGH); //
    delay(100);
    digitalWrite(output1, LOW);
    delay(100);
    digitalWrite(output1, HIGH); //
    delay(100);
    digitalWrite(output1, LOW);
    delay(100);
    digitalWrite(output1, HIGH); //
    delay(100);
    digitalWrite(output1, LOW);
    itsONled[1] = 1;
}
break;
case code2:
if(itsONled[2] == 1) {
    digitalWrite(output2, LOW);
    itsONled[2] = 0;
} else {
    digitalWrite(output2, HIGH);
    delay(100);
    digitalWrite(output2, LOW);
    delay(100);
    digitalWrite(output2, HIGH);
    delay(100);
    digitalWrite(output2, LOW);
    delay(100);
    digitalWrite(output2, HIGH);
    delay(100);
    digitalWrite(output2, LOW);
    delay(100);
    digitalWrite(output2, HIGH);
    delay(100);
    digitalWrite(output2, LOW);
    delay(100);
    digitalWrite(output2, HIGH);
}
```

```

    delay(100);
    digitalWrite(output2, LOW);
    itsONled[2] = 1;
}
break;
case code3:
if(itsONled[3] == 1) {
    digitalWrite(output3, LOW);
    itsONled[3] = 0;
} else {
    digitalWrite(output3, HIGH);
    delay(100);
    digitalWrite(output3, LOW);
    delay(100);
    digitalWrite(output3, HIGH);
    delay(100);
    digitalWrite(output3, LOW);
    delay(100);
    digitalWrite(output3, HIGH);
    delay(100);
    digitalWrite(output3, LOW);
    delay(100);
    digitalWrite(output3, HIGH);
    delay(100);
    digitalWrite(output3, LOW);
    delay(100);
    digitalWrite(output3, HIGH);
    delay(100);
    digitalWrite(output3, LOW);
    delay(100);
    digitalWrite(output3, HIGH);
    delay(100);
    digitalWrite(output3, LOW);
    delay(100);
    digitalWrite(output3, HIGH);
    delay(100);
    digitalWrite(output3, LOW);
    itsONled[3] = 1;
}
break;
case code4:
if(itsONled[4] == 1) {
    digitalWrite(output4, LOW);
    itsONled[4] = 0;
} else {
    digitalWrite(output4, HIGH);
    delay(100);

```

```
digitalWrite(output4, LOW);
delay(100);
digitalWrite(output4, HIGH);
delay(100);
digitalWrite(output4, LOW);
delay(100);
digitalWrite(output4, HIGH);
delay(100);
digitalWrite(output4, LOW);
delay(100);
digitalWrite(output4, HIGH);
delay(100);
digitalWrite(output4, LOW);
delay(100);
digitalWrite(output4, HIGH);
delay(100);
digitalWrite(output4, LOW);
itsONled[4] = 1;
}
break;
case code5:
if(itsONled[5] == 1) {
digitalWrite(output5, LOW);
itsONled[5] = 0;
} else {
digitalWrite(output5, HIGH);
delay(100);
digitalWrite(output5, LOW);
delay(100);
digitalWrite(output5, HIGH);
delay(100);
digitalWrite(output5, LOW);
delay(100);
digitalWrite(output5, HIGH);
delay(100);
digitalWrite(output5, LOW);
delay(100);
digitalWrite(output5, HIGH);
delay(100);
digitalWrite(output5, LOW);
```

```
    delay(100);
    digitalWrite(output5, HIGH);
    delay(100);
    digitalWrite(output5, LOW);
    itsONled[5] = 1;
  }
  break;
}
//Serial.println(value); // you can comment this line
irrcv.resume(); // Receive the next value
}
}
```