

```
#include <Servo.h>
#include <IRremote.h>
```

```
int a = 13;
int b = 12;
int c = 7;
int d = 8;
int e = 9;
int g = 11;
int f = 10;
```

```
int greenLed = A4;
int redLed = A5;
int Button = 2;
```

```
Servo myServo;
```

```
int RECV_PIN = 5;
IRrecv irrecv(RECV_PIN);
decode_results results;
#define code1 490//
```

```
void setup()
{
  myServo.attach(3);
  pinMode(a,OUTPUT);
  pinMode(b,OUTPUT);
  pinMode(c,OUTPUT);
  pinMode(d,OUTPUT);
  pinMode(e,OUTPUT);
  pinMode(f,OUTPUT);
  pinMode(g,OUTPUT);
  pinMode(greenLed,OUTPUT);
  pinMode(redLed,OUTPUT);
  pinMode (Button, INPUT);
  Serial.begin(9600);
  irrecv.enableIRIn();
}
void nine()
{
```

```
digitalWrite(a, LOW);
digitalWrite(b, LOW);
digitalWrite(c, LOW);
digitalWrite(g, LOW);
digitalWrite(f, LOW);
digitalWrite(e, HIGH);
digitalWrite(d, HIGH);
}
void eight()
{
digitalWrite(a, LOW);
digitalWrite(b, LOW);
digitalWrite(c, LOW);
digitalWrite(g, LOW);
digitalWrite(f, LOW);
digitalWrite(e, LOW);
digitalWrite(d, LOW);
}
void seven()
{
digitalWrite(a, LOW);
digitalWrite(b, LOW);
digitalWrite(c, LOW);
digitalWrite(g, HIGH);
digitalWrite(f, HIGH);
digitalWrite(e, HIGH);
digitalWrite(d, HIGH);
}
void six()
{
digitalWrite(a, LOW);
digitalWrite(b, HIGH);
digitalWrite(c, LOW);
digitalWrite(g, LOW);
digitalWrite(f, LOW);
digitalWrite(e, LOW);
digitalWrite(d, LOW);
}
void five()
{
```

```
digitalWrite(a, LOW);
digitalWrite(b, HIGH);
digitalWrite(c, LOW);
digitalWrite(g, LOW);
digitalWrite(f, LOW);
digitalWrite(e, HIGH);
digitalWrite(d, LOW);
}
void four()
{
digitalWrite(a, HIGH);
digitalWrite(b, LOW);
digitalWrite(c, LOW);
digitalWrite(g, LOW);
digitalWrite(f, LOW);
digitalWrite(e, HIGH);
digitalWrite(d, HIGH);
}
void three()
{
digitalWrite(a, LOW);
digitalWrite(b, LOW);
digitalWrite(c, LOW);
digitalWrite(g, LOW);
digitalWrite(f, HIGH);
digitalWrite(e, HIGH);
digitalWrite(d, LOW);
}
void two()
{
digitalWrite(a, LOW);
digitalWrite(b, LOW);
digitalWrite(c, HIGH);
digitalWrite(g, LOW);
digitalWrite(f, HIGH);
digitalWrite(e, LOW);
digitalWrite(d, LOW);
}
void one()
{
```

```
digitalWrite(a, HIGH);
digitalWrite(b, LOW);
digitalWrite(c, LOW);
digitalWrite(g, HIGH);
digitalWrite(f, HIGH);
digitalWrite(e, HIGH);
digitalWrite(d, HIGH);
}
void zero()
{
digitalWrite(a, LOW);
digitalWrite(b, LOW);
digitalWrite(c, LOW);
digitalWrite(g, HIGH);
digitalWrite(f, LOW);
digitalWrite(e, LOW);
digitalWrite(d, LOW);
}
void countdown()
{
nine();
delay(1000);
eight();
delay(1000);
seven();
delay(1000);
six();
delay(1000);
five();
delay(1000);
four();
delay(1000);
three();
delay(1000);
two();
delay(1000);
one();
delay(1000);
zero();
delay(1000);
```

```

}

void servoMotor ()
{
    delay(2000);
    myServo.write(90);
}

void loop ()
{
    myServo.write(0);
    //delay(3000);
    //myServo.write(90);
    //delay(5000);
    //countdown();
    //delay (5000);

    if (digitalRead(Button) == HIGH){
        digitalWrite(greenLed, HIGH);
        digitalWrite(redLed, LOW);
    }
    else {
        digitalWrite(greenLed, LOW);
        digitalWrite(redLed, HIGH);
    }
    if (irrecv.decode(&results)){
        Serial.println(results.value,HEX);
        if (results.value == 0x490)
        {
            myServo.write (90);
            countdown();
        }
        else myServo.write (180);
        irrecv.resume();
    }
}

```