

```

#include <Servo.h>

Servo myservo;
int servoPin=9; //Servo orange an Pin 9, braun gnd, rot vin
int angle=90;
int angleStep=5;
int tiltPin = 2;      // pin number for tilt switch signal
int ledPin = 13;     // pin number of LED
int tiltState = 0;   // variable for reading the tilt switch status
void setup() {
  pinMode(ledPin, OUTPUT); // set the LED pin as output
  pinMode(tiltPin, INPUT); // set the tilt switch pin as input
  myservo.attach(servoPin);
  myservo.write(angle);
}
void loop(){

  // get the tilt switch state
  tiltState = digitalRead(tiltPin);
  // check if tilt switch is tilted.
  if (tiltState == HIGH) {
    digitalWrite(ledPin, HIGH);
    angle = angle + angleStep;

    // reverse the direction of the moving at the ends of the angle:
    if (angle <= 0 || angle >= 180) {
      angleStep = -angleStep;
    }
    myservo.write(angle); // move the servo to desired angle
    Serial.print("Moved to: ");
    Serial.print(angle); // print the angle
    Serial.println(" degree");
  }
  else {
    digitalWrite(ledPin, LOW);
  }
}

```