```
#include <Servo.h> // include Servo library
// 180 horizontal MAX
Servo horizontal; // horizontal servo
int servoh = 180; // 90; // stand horizontal servo
int servohLimitHigh = 175;
int servohLimitLow = 5;
// 65 degrees MAX
Servo vertical; // vertical servo
int servov = 45; // 90; // stand vertical servo
int servovLimitHigh = 60;
int servovLimitLow = 1;
// LDR pin connections
// name = analogpin;
int ldrlt = 0; //LDR top left - BOTTOM LEFT <--- BDG
int ldrrt = 1; //LDR top rigt - BOTTOM RIGHT
int ldrld = 2; //LDR down left - TOP LEFT
int ldrrd = 3; //ldr down rigt - TOP RIGHT
void setup() {
Serial.begin(9600);
horizontal.attach(8);
vertical.attach(9);
horizontal.write(180);
vertical.write(45);
delay(3000);
void loop() {
int lt = analogRead(ldrlt); // top left
int rt = analogRead(ldrrt); // top right
int ld = analogRead(ldrld); // down left
int rd = analogRead(ldrrd); // down right
int dtime = 10; int tol = 90; // dtime=diffirence time, tol=toleransi
int avt = (lt + rt) / 2; // average value top
int avd = (ld + rd) / 2; // average value down int avl = (lt + ld) / 2; // average value left
int avr = (rt + rd) / 2; // average value right
int dvert = avt - avd; // check the diffirence of up and down
int dhoriz = avl - avr; // check the diffirence og left and rigt
Serial.print(avt);
Serial.print(" ");
Serial.print(avd);
Serial.print(" ");
Serial.print(avl);
Serial.print(" ");
Serial.print(avr);
Serial.print(" ");
Serial.print(dtime);
Serial.print(" ");
```

```
Serial.print(tol);
Serial.println(" ");
if (-1*tol > dvert \mid \mid dvert > tol) // check if the diffirence is in the
tolerance else change vertical angle
    if (avt > avd)
      servov = ++servov;
      if (servov > servovLimitHigh)
       servov = servovLimitHigh;
    }
    else if (avt < avd)
        servov= --servov;
        if (servov < servovLimitLow)</pre>
            servov = servovLimitLow;
          }
    vertical.write(servov);
if (-1*tol > dhoriz || dhoriz > tol) // check if the diffirence is in the
tolerance else change horizontal angle
    if (avl > avr)
        servoh = --servoh;
        if (servoh < servohLimitLow)</pre>
            servoh = servohLimitLow;
      }
        else if (avl < avr)
            servoh = ++servoh;
            if (servoh > servohLimitHigh)
                servoh = servohLimitHigh;
          }
            else if (avl = avr)
                delay(5000);
            horizontal.write(servoh);
  Serial.print(" ");
  Serial.print(servoh);
  Serial.print(" ");
  Serial.print(servov);
  Serial.print(" ");
  delay(dtime);
```