**Arduino code for single axis solar tracker**

#include <Servo.h> //including the library of servo motor

Servo sg90;

int initial\_position = 90;

int LDR1 = A0; //connect The LDR1 on Pin A0

int LDR2 = A1; //Connect The LDR2 on pin A1

int error = 5;

int servopin=9; //You can change servo just makesure its on arduino’s PWM pin

void setup()

{

sg90.attach(servopin);

pinMode(LDR1, INPUT);

pinMode(LDR2, INPUT);

sg90.write(initial\_position); //Move servo at 90 degree

delay(2000);

}

void loop()

{

int R1 = analogRead(LDR1); // read LDR 1

int R2 = analogRead(LDR2); // read LDR 2

int diff1= abs(R1 – R2);

int diff2= abs(R2 – R1);

if((diff1 <= error) || (diff2 <= error)) {

} else {

if(R1 > R2)

{

initial\_position = –initial\_position;

}

if(R1 < R2)

{

initial\_position = ++initial\_position;

}

}

sg90.write(initial\_position);

delay(100);

}

Connections like this:

