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: