[Arduino Based Sun Tracking Solar Panel](https://circuitdigest.com/microcontroller-projects/arduino-solar-panel-tracker)

Code:

#include <Servo.h>      //including the library of servo motor   
Servo sg90;             //initializing a variable for servo named sg90  
int initial\_position = 90;   //Declaring the initial position at 90  
int LDR1 = A0;          //Pin at which LDR is connected  
int LDR2 = A1;          //Pin at which LDR is connected  
int error = 5;          //initializing variable for error  
int servopin=9;  
void setup()   
{

  sg90.attach(servopin);  // attaches the servo on pin 9  
  pinMode(LDR1, INPUT);   //Making the LDR pin as input  
  pinMode(LDR2, INPUT);  
  sg90.write(initial\_position);   //Move servo at 90 degree  
  delay(2000);            // giving a delay of 2 seconds  
}    
   
void loop()   
{   
  int R1 = analogRead(LDR1); // reading value from LDR 1  
  int R2 = analogRead(LDR2); // reading value from LDR 2  
  int diff1= abs(R1 - R2);   // Calculating the difference between the LDR's  
  int diff2= abs(R2 - R1);  
    
  if((diff1 <= error) || (diff2 <= error)) {  
    //if the difference is under the error then do nothing  
  } else {      
    if(R1 > R2)  
    {  
      initial\_position = --initial\_position;  //Move the servo towards 0 degree  
    }  
    if(R1 < R2)   
    {  
      initial\_position = ++initial\_position; //Move the servo towards 180 degree  
    }  
  }  
  sg90.write(initial\_position); // write the position to servo

  delay(100);  
}