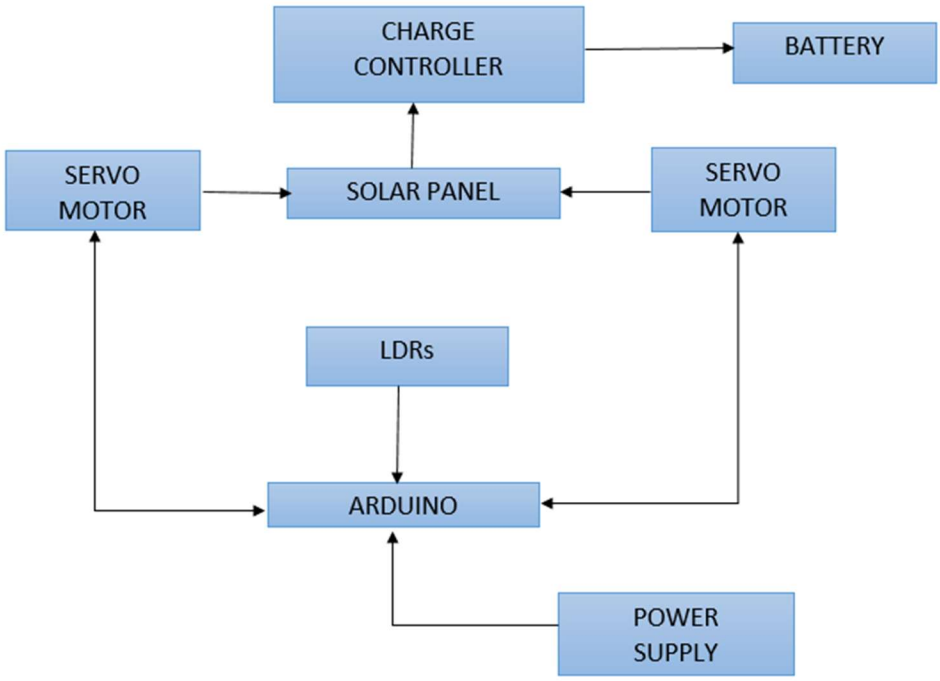

Fig.1

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(IN/PA-800)
For Mitra& Associates

```
#include <Servo.h>
#include <LiquidCrystal_I2C.h>

const int ldrPin1 = A0;  // Analog pin for LDR 1
const int ldrPin2 = A1;  // Analog pin for LDR 2
const int servoPin = 9;  // Digital pin for servo motor
const int threshold = 500;  // Adjust this threshold based on your LDR sensitivity
const int lcdAddress = 0x27;  // I2C address for the LCD

Servo solarServo;
LiquidCrystal_I2C lcd(lcdAddress, 16, 2);

void setup() {
  pinMode(ldrPin1, INPUT);
  pinMode(ldrPin2, INPUT);
  solarServo.attach(servoPin);
  lcd.begin(16, 2);
  lcd.print("Solar Tracker");
}

void loop() {
  int ldrValue1 = analogRead(ldrPin1);
  int ldrValue2 = analogRead(ldrPin2);

  lcd.setCursor(0, 1);
  lcd.print("LDR1:ON ");
```

Fig.2

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```
  lcd.print(ldrValue1);
  lcd.print("LDR2:ON ");
  lcd.print(ldrValue2);

  if (ldrValue1 > threshold && ldrValue2 > threshold) {
    rotateServo(90);  // Both LDRs receive light, keep the solar panel in the middle position
  } else if (ldrValue1 > threshold) {
    rotateServo(0);   // Light detected by LDR 1, rotate towards LDR 1
  } else if (ldrValue2 > threshold) {
    rotateServo(180); // Light detected by LDR 2, rotate towards LDR 2
  }

  delay(1000);  // Adjust the delay based on your application's requirements
}

void rotateServo(int angle) {
  solarServo.write(angle);
  delay(15);  }
```

Fig.3

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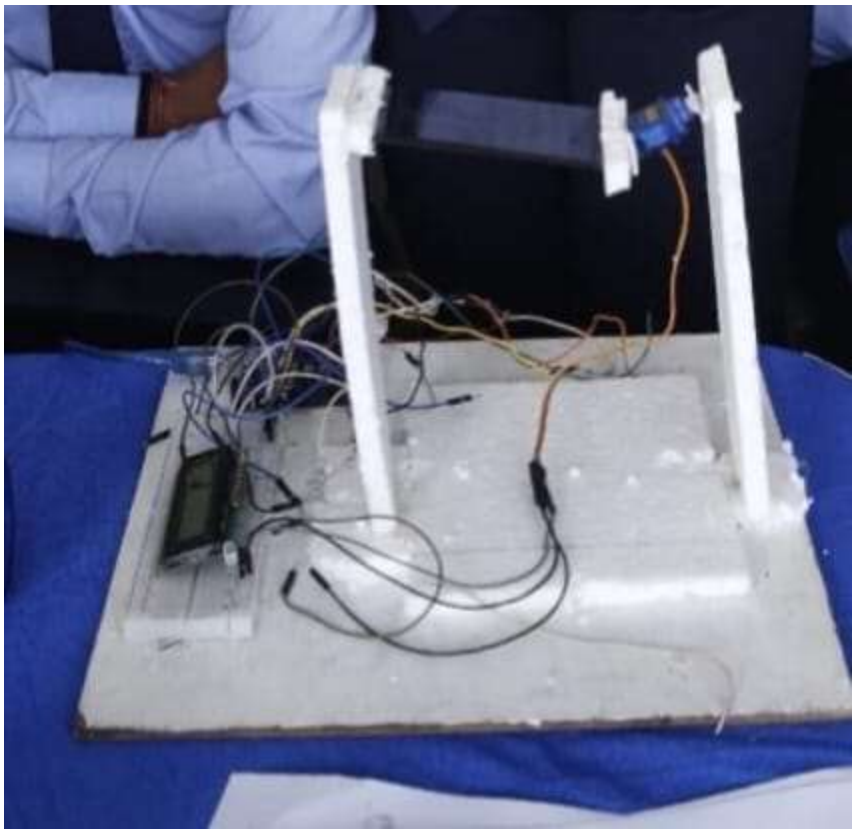

Fig.4

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