

```
int m1=8;

int m2=9;

void setup()

{

Serial.begin(9600);

// initialize serial communication at 9600 bits per second

}

void loop()

// the loop routine runs over and over again forever

{

int s1 = analogRead(A4);

int s2 = analogRead(A5);

Serial.println("s1");

Serial.println(s1);

Serial.println("s2");

Serial.println(s2);

if(s2 > s1 && s2-s1 > 20)

{

Serial.println("motor on clock-wise rotation");

digitalWrite(m1,HIGH);

digitalWrite(m2,LOW);

delay(250);

digitalWrite(m1,LOW);

digitalWrite(m2,LOW);

delay(250);

}

else if(s1 > s2 && s1-s2 > 20)

{

Serial.println("motor on Anti-clock-wise rotation");

digitalWrite(m1,LOW);

digitalWrite(m2,HIGH);
```

```
delay(250);  
digitalWrite(m1,LOW);  
digitalWrite(m2,LOW);  
delay(250);  
}  
else { Serial.println("motor off");  
digitalWrite(m1,LOW);  
digitalWrite(m2,LOW);  
}  
if (s1 == s2 || s1 > 1000 && s2 > 1000) // equal and getting max voltage condition  
{  
Serial.println("motor off");  
digitalWrite(m1,LOW);  
digitalWrite(m2,LOW);  
}  
}
```