

```
/*
```

GLOSSÁRIO:

mef -> motor esquerdo frente

mdf -> motor direito frente

met -> motor esquerdo trás

mdt -> motor direito trás

snd -> sensor direito

sne -> sensor esquerdo

```
*/
```

```
int mdt = 5;
```

```
int mdf = 6;
```

```
int met = 11;
```

```
int mef = 10;
```

```
int snd = 4;
```

```
int sne = 3 ;
```

```
int echo = 9;
```

```
int trig = 8;
```

```
float distancia;
```

```
int motor_esquerdo = 108;
```

```
int motor_direito = 114;
```

```
void setup() {
```

```
    pinMode(mef,OUTPUT);
```

```
    pinMode(met,OUTPUT);
```

```
    pinMode(mdf,OUTPUT);
```

```
    pinMode(mdt,OUTPUT);
```

```
    pinMode(snd,INPUT);
```

```
    pinMode(sne,INPUT);
```

```
    pinMode (trig, OUTPUT);
```

```
    pinMode (echo,INPUT);
```

```
    Serial.begin(9600);
```

```
}
```

```
void loop() {
```

```
    digitalWrite(trig, LOW);
```

```
    delay(0005);
```

```
    digitalWrite(trig, HIGH);
```

```
    delay(0010);
```

```
    digitalWrite(trig, LOW);
```

```

distancia = pulseIn (echo, HIGH);
distancia = distancia/58;
Serial.print("distancia: ");
Serial.print(distancia);
Serial.print("cm          ");

Serial.print("Sensor direito: ");
Serial.print(digitalRead(snd));
Serial.print(" Sensor esquerdo: ");
Serial.println(digitalRead(sne));

if(digitalRead(sne)==0 && digitalRead(snd)==0){
    analogWrite(mef, LOW);
    analogWrite(mdf, LOW);
    analogWrite(met, LOW);
    analogWrite(mdt, LOW);
}
if(digitalRead(sne)==0 && digitalRead(snd)==1){
    analogWrite(mef, LOW);
    analogWrite(mdf, motor_direito/2);
    analogWrite(met, motor_esquerdo/3);
    analogWrite(mdt, LOW);
}
if(digitalRead(sne)==1 && digitalRead(snd)==0){
    analogWrite(mef, motor_esquerdo/2);
    analogWrite(mdf, LOW);
    analogWrite(met, LOW);
    analogWrite(mdt, motor_direito/3);
}
if(digitalRead(sne)==1 && digitalRead(snd)==1){
    analogWrite(mef, motor_esquerdo);
    analogWrite(mdf, motor_direito);
    analogWrite(met, LOW);
    analogWrite(mdt, LOW);
}

if(distancia<=5){
    analogWrite(mef, LOW);
    analogWrite(mdf, LOW);
    analogWrite(met, LOW);
    analogWrite(mdt, LOW);
}
}

```