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Date	February 05, 2020	Words	178
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```
int EA = 9;
int EB = 3;
int MA1 = 7;
int MA2 = 6;
int MB1 = 5;
int MB2 = 4; /
```

```
int RI = A0;
int LF = A1;
```

```
void setup() {
```

```
  pinMode(EA, OUTPUT);
  pinMode(EB, OUTPUT);
  pinMode(MA1, OUTPUT);
  pinMode(MA2, OUTPUT);
  pinMode(MB1, OUTPUT);
  pinMode(MB2, OUTPUT);
  pinMode(RI, INPUT);
  pinMode(LF, INPUT);
```

```
}
```

```
void loop() {
```

```
  if (analogRead(RI)<=35 && analogRead(LF)<=35)
  {
```

```
    analogWrite(EA, 100);
    analogWrite(EB, 100);
```

```
    digitalWrite(MA1, LOW);
    digitalWrite(MA2, HIGH);
    digitalWrite(MB1, HIGH);
    digitalWrite(MB2, LOW);
  }
```

```
  else if (analogRead(RI)<=35 && !analogRead(LF)<=35)
  {
```

```
    analogWrite(EA, 255);
    analogWrite(EB, 255);
```

```
    digitalWrite(MA1, LOW);
    digitalWrite(MA2, HIGH);
```

```
    digitalWrite(MB1, LOW);
    digitalWrite(MB2, HIGH);
  }
```

```
  else if (!analogRead(RI)<=35 && analogRead(LF)<=35)
  {
```

```
    analogWrite(EA, 255); //set ri motors speed
    analogWrite(EB, 255); //set lf motors speed
```

```
    digitalWrite(MA1, HIGH);
    digitalWrite(MA2, LOW);
    digitalWrite(MB1, HIGH);
    digitalWrite(MB2, LOW);
  }
```

```
  else if (!analogRead(RI)<=35 && !analogRead(LF)<=35)
  {
```

```
    analogWrite(EA, 0);
    analogWrite(EB, 0);
    digitalWrite(MA1, LOW);
    digitalWrite(MA2, LOW);
    digitalWrite(MB1, LOW);
    digitalWrite(MB2, LOW);
  }
}
```