```
int sensorPin1 = A1;
int sensorPin2 = A2;

int sensorValue1 = 0;
int sensorValue2 = 0;

void setup() {

  pinMode(2, OUTPUT);
  pinMode(3, OUTPUT);
  pinMode(4, OUTPUT);
  pinMode(7, OUTPUT);
  pinMode(8, OUTPUT);

  pinMode(9, OUTPUT);
  pinMode(10, OUTPUT);
  pinMode(11, OUTPUT);
  pinMode(12, OUTPUT);
  pinMode(13, OUTPUT);

}

void loop() {

    sensorValue1 = analogRead(sensorPin1);
    sensorValue2 = analogRead(sensorPin2);

// Versnelling 1

  if (( sensorValue1 > 612 ) && ( sensorValue2 < 482 ))
  {
  digitalWrite(2, LOW);
  digitalWrite(3, LOW);
  digitalWrite(4, LOW);
  digitalWrite(7, LOW);
  digitalWrite(8, LOW);

  digitalWrite(9, HIGH);
  digitalWrite(10, LOW);
  digitalWrite(11, LOW);
  digitalWrite(12, HIGH);
  digitalWrite(13, LOW);
  }

// Versnelling 2

  if (( sensorValue1 > 582 ) && ( sensorValue2 > 542 ))
  {
  digitalWrite(2, LOW);
  digitalWrite(3, HIGH);
  digitalWrite(4, LOW);
  digitalWrite(7, HIGH);
  digitalWrite(8, LOW);

  digitalWrite(9, LOW);
  digitalWrite(10, LOW);
  digitalWrite(11, HIGH);
  digitalWrite(12, HIGH);
  digitalWrite(13, HIGH);
  }

// Versnelling 3

  if (( sensorValue1 < 612 ) && (sensorValue1 > 552 ))
  if (( sensorValue2 < 482 ))
  {
```

```
 digitalWrite(2, LOW);
 digitalWrite(3, LOW);
 digitalWrite(4, LOW);
 digitalWrite(7, HIGH);
 digitalWrite(8, LOW);

 digitalWrite(9, HIGH);
 digitalWrite(10, LOW);
 digitalWrite(11, HIGH);
 digitalWrite(12, HIGH);
 digitalWrite(13, HIGH);
 }

// Versnelling 4

 if (( sensorValue1 < 582 ) && (sensorValue1 > 552))
 if (( sensorValue2 > 542 ))
 {
 digitalWrite(2, LOW);
 digitalWrite(3, LOW);
 digitalWrite(4, HIGH);
 digitalWrite(7, LOW);
 digitalWrite(8, LOW);

 digitalWrite(9, HIGH);
 digitalWrite(10, LOW);
 digitalWrite(11, HIGH);
 digitalWrite(12, HIGH);
 digitalWrite(13, LOW);
 }

// Versnelling 5

 if (( sensorValue1 < 552 ) && ( sensorValue2 < 482 ))
 {
 digitalWrite(2, LOW);
 digitalWrite(3, LOW);
 digitalWrite(4, HIGH);
 digitalWrite(7, HIGH);
 digitalWrite(8, LOW);

 digitalWrite(9, HIGH);
 digitalWrite(10, LOW);
 digitalWrite(11, HIGH);
 digitalWrite(12, LOW);
 digitalWrite(13, HIGH);
 }

 // Versnelling Achteruit (R)

 if (( sensorValue1 < 552 ) && ( sensorValue2 > 582 ))
 {
 digitalWrite(2, LOW);
 digitalWrite(3, HIGH);
 digitalWrite(4, HIGH);
 digitalWrite(7, LOW);
 digitalWrite(8, HIGH);

 digitalWrite(9, LOW);
 digitalWrite(10, LOW);
 digitalWrite(11, HIGH);
 digitalWrite(12, HIGH);
 digitalWrite(13, HIGH);
 }

 // Versnelling Neutraal (N)
```

```
 if (( sensorValue1 > 0 ) && ( sensorValue1 < 1023))
 if (( sensorValue2 < 542 ) && (sensorValue2 > 482))
 {

 delay (500);

 digitalWrite(2, HIGH);
 digitalWrite(3, HIGH);
 digitalWrite(4, HIGH);
 digitalWrite(7, LOW);
 digitalWrite(8, HIGH);

 digitalWrite(9, HIGH);
 digitalWrite(10, LOW);
 digitalWrite(11, LOW);
 digitalWrite(12, HIGH);
 digitalWrite(13, LOW);
 }
}
```