Hand Gesture Controlled Vehicle

Transmittor:

```
#include <SPI.h>
#include "RF24.h"
const int enbA = 3;
const int enbB = 6;

const int IN1 = 2;    //Right Motor (-)
const int IN2 = 4;    //Right Motor (+)
const int IN3 = 5;    //Left Motor (+)
const int IN4 = 7;    //Right Motor (-)

int RightSpd = 200;
int LeftSpd = 250;

int data[2];

RF24 radio(8,9);

const uint64_t pipe = 0xE8E8F0F0E1LL;

void setup(){
   pinMode(enbA, OUTPUT);
  pinMode(enbB, OUTPUT);
  pinMode(IN1, OUTPUT);
```

```
  pinMode(IN2, OUTPUT);
  pinMode(IN3, OUTPUT);
  pinMode(IN4, OUTPUT);



  Serial.begin(9600);
  radio.begin();
  radio.openReadingPipe(1, pipe);
  radio.startListening();
  }

void loop(){
  if (radio.available()){
    radio.read(data, sizeof(data));

    if(data[0] < 340){

      analogWrite(enbA, RightSpd);
      analogWrite(enbB, LeftSpd);
      digitalWrite(IN1, HIGH);
      digitalWrite(IN2, LOW);
      digitalWrite(IN3, HIGH);
      digitalWrite(IN4, LOW);
      Serial.println("forward");
    }
```

```
if(data[0] > 360){

  analogWrite(enbA, RightSpd);
  analogWrite(enbB, LeftSpd);
  digitalWrite(IN1, LOW);
  digitalWrite(IN2, HIGH);
  digitalWrite(IN3, LOW);
  digitalWrite(IN4, HIGH);
  Serial.println("backward");
}

if(data[1] > 160){
  analogWrite(enbA, RightSpd);
  analogWrite(enbB, LeftSpd);
  digitalWrite(IN1, LOW);
  digitalWrite(IN2, HIGH);
  digitalWrite(IN3, HIGH);
  digitalWrite(IN4, LOW);
  Serial.println("right");
}

if(data[1] < 140){
  analogWrite(enbA, RightSpd);
  analogWrite(enbB, LeftSpd);
  digitalWrite(IN1, HIGH);
```

```
    digitalWrite(IN2, LOW);
    digitalWrite(IN3, LOW);
    digitalWrite(IN4, HIGH);
    Serial.println("left");
   }

   if(data[0] > 340 && data[0] < 360 && data[1] > 140 && data[1] < 160){
    analogWrite(enbA, 0);
    analogWrite(enbB, 0);
    digitalWrite(IN1, LOW);
    digitalWrite(IN2, LOW);
    digitalWrite(IN3, LOW);
    digitalWrite(IN4, LOW);
    Serial.println("stop");
   }
  }
}
```