Hand Gesture Controlled Vehicle

Receiver:

```
#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");
 }
}
```

}