void setup()

{

Serial.begin(9600);

pinMode(5,OUTPUT);

pinMode(6,OUTPUT);

pinMode(10,OUTPUT);

pinMode(11,OUTPUT);

}

void loop()

{

//straight

if(analogRead(1)>400&&analogRead(2)>400&&analogRead(3)<400&&analogRead(4)>400&&analogRead(5)>400)

{

analogWrite(5,255);

analogWrite(6,0);

analogWrite(10,255);

analogWrite(11,0);

}

//soft left

if(analogRead(1)>400&&analogRead(2)<400&&analogRead(3)<400&&analogRead(4)>400&&analogRead(5)>400)

{

analogWrite(5,125);

analogWrite(6,0);

analogWrite(10,255);

analogWrite(11,0);

}

//soft right

if(analogRead(1)>400&&analogRead(2)>400&&analogRead(3)<400&&analogRead(4)<400&&analogRead(5)>400)

{

digitalWrite(5,255);

digitalWrite(6,0);

digitalWrite(10,125);

digitalWrite(11,0);

}

//semi soft left

if(analogRead(1)>400&&analogRead(2)<400&&analogRead(3)<400&&analogRead(4)<400&&analogRead(5)>400)

{

analogWrite(5,80);

analogWrite(6,0);

analogWrite(10,255);

analogWrite(11,0);

}

//semi soft right

if(analogRead(1)>400&&analogRead(2)<400&&analogRead(3)<400&&analogRead(4)<400&&analogRead(5)>400)

{

digitalWrite(5,255);

digitalWrite(6,0);

digitalWrite(10,80);

digitalWrite(11,0);

}

//semi hard left

if(analogRead(1)<400&&analogRead(2)<400&&analogRead(3)<400&&analogRead(4)>400&&analogRead(5)>400)

{

analogWrite(5,62);

analogWrite(6,0);

analogWrite(10,255);

analogWrite(11,0);

}

//semi hard right

if(analogRead(1)>400&&analogRead(2)>400&&analogRead(3)<400&&analogRead(4)<400&&analogRead(5)<400)

{

analogWrite(5,255);

analogWrite(6,0);

analogWrite(10,62);

analogWrite(11,0);

}

//hard left

if(analogRead(1)<400&&analogRead(2)<400&&analogRead(3)<400&&analogRead(4)<400&&analogRead(5)>400)

{

analogWrite(5,0);

analogWrite(6,0);

analogWrite(10,255);

analogWrite(11,0);

}

//hard right

if(analogRead(1)>400&&analogRead(2)<400&&analogRead(3)<400&&analogRead(4)<400&&analogRead(5)<400)

{

analogWrite(5,255);

analogWrite(6,0);

analogWrite(10,0);

analogWrite(11,0);

}

if(analogRead(1)<400&&analogRead(2)<400&&analogRead(3)<400&&analogRead(4)<400&&analogRead(5)<400)

{

analogWrite(5,255);

analogWrite(6,0);

analogWrite(10,255);

analogWrite(11,0);

}

}