#include <Servo.h>

Servo myservo;

Servo myservo2;

Servo myservo3;

#include <Stepper.h>

const int stepsPerRevolution = 200;

Stepper myStepper(stepsPerRevolution, 2, 5, 6, 7);

//Stepper Motorpaso1(stepsPerRevolution, 1,8,9,10);

int pos = 130;

int pos1 = 0;

int pos2 = 80;

int pao=0;

int var1;

int ang1=0;

int ang2=0;

int ang3=0;

void setup()

{

myStepper.setSpeed(20);

myservo.attach(9);

myservo2.attach(10);

myservo3.attach(11);

Serial.begin(9600);

}

void loop()

{

if (Serial.available())

{

var1=Serial.read();

//MOTOR DE PASO

if (var1=='a')

{

myStepper.step(1);

pao=pao+1;

Serial.write(pao);

}

if (var1=='b')

{//myStepper.step(0);

}

if (var1=='c')

{

myStepper.step(-1);

pao=pao-1;

Serial.write(pao);

}

//SERVO 4

if (var1=='j')

{

myservo.write(pos);

pos++;

Serial.write(pos);

// myservo.write(90);

}

if (var1=='k')

{

myservo.write(pos);

}

if (var1=='z')

{

myservo.write(pos);

pos--;

Serial.write(pos);

}

if (var1=='g')

{

myservo2.write(pos1);

pos1++;

Serial.write(pos1);

// myservo.write(90);

}

if (var1=='h')

{

myservo2.write(pos1);

}

if (var1=='i')

{

myservo2.write(pos1);

pos1--;

Serial.write(pos1);

}

if (var1=='d')

{

myservo3.write(pos2);

pos2++;

Serial.write(pos2);

// myservo.write(90);

}

if (var1=='e')

{

myservo3.write(pos2);

}

if (var1=='f')

{

myservo3.write(pos2);

pos2--;

Serial.write(pos2);

}

//AUTOMATICO

if(var1=='w')

{

myStepper.step(100);

delay(1000);

for (int a = 80; a >= 34; a -= 1)

{

myservo3.write(a);

delay(50);

}

for (int a = 0; a <= 50; a += 1)

{

myservo2.write(a);

delay(50);

}

myservo.write(30);

delay(1000);

for (int a = 50; a >= 0; a -= 1)

{

myservo2.write(a);

delay(50);

}

for (int a = 34; a <= 80; a += 1)

{

myservo3.write(a);

delay(50);

}

//myservo.write(130);

//myservo.write(130);

myStepper.step(-100);

delay(1000);

for (int a = 80; a >= 34; a -= 1)

{

myservo3.write(a);

delay(50);

}

for (int a = 0; a <= 50; a += 1)

{

myservo2.write(a);

delay(50);

}

myservo.write(130);

delay(1000);

for (int a = 50; a >= 0; a -= 1)

{

myservo2.write(a);

delay(50);

}

for (int a = 34; a <= 80; a += 1)

{

myservo3.write(a);

delay(50);

}

}

}

}