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/*
Stepper Motor Control - one revolution

This program drives a unipolar or bipolar stepper motor.
The motor is attached to digital pins 8 - 11 of the Arduino.

The motor should revolve one revolution in one direction, then
one revolution in the other direction.

Created 11 Mar. 2007
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by Tom Igoe

*/

#include <Stepper.h>

const int revolution = 200; // change this to fit the number of steps per
revolution
int eighthStep = revolution / 8;
// for your motor

// initialize the stepper library on pins 8 through 11:
Stepper pushpull(revolution, 8, 9, 10, 11);
Stepper revolver(revolution, 4, 5, 6, 7);

void setup() {
  // set the speed at 60 rpm:
  pushpull.setSpeed(50);
  revolver.setSpeed(30);
  // initialize the serial port:
  Serial.begin(9600);

  // Rotate 1/8
  Serial.println("Clockwise");
  revolver.step(eighthStep);
  delay(5000);

  // Push and pull the medicine pusher
  delay(5000);
  Serial.println("Push");
  pushpull.step(revolution*1.5); //+ eighthStep);
  delay(1000);
  Serial.println("Pull");
  pushpull.step(-revolution*1.5); //- eighthStep);
  delay(5000);
}

void loop() {

}

```