```
#include <Stepper.h>
const int stepsPerRevolution = 200; //This is the default for NEMA-17. Try changing it if you have a different Stepper Motor model.

int openPin= 8;
int closePin=12;
int relay =2;

Stepper myStepper = Stepper(stepsPerRevolution, 10, 9, 7, 6); //Pins going to H-Bride; 9/10 are pairs and 6/7 are pairs.

void setup()
{
  // Serial.begin(9600); //Optional to monitor the system.

  myStepper.setSpeed(200); //This is the default for NEMA-17. Try changing it if you have a different Stepper Motor model.

  pinMode(relay, OUTPUT);
  pinMode(openPin, INPUT);
  pinMode(closePin, INPUT);
  digitalWrite(relay, HIGH); //I'm using the NC pin in the relay so this keeps the relay off when I first start the arduino.

}

void loop()
{
int openState= digitalRead(openPin); //Button to open the curtain
int closeState= digitalRead(closePin); //Button to open the curtain

if (openState == HIGH){
  //Serial.println("OPEN"); //Optional for monitoring

    digitalWrite(relay, LOW); //opens power to the H-Bridge
    delay(250); //for tolerance

    for (int i=1; i<=16; i++){  //Number of steps to close the curtain. Keep testing until you get the number that works for you.
  //Serial.println(i); //Optional for monitoring
      myStepper.step(-200);
    }
    delay(500); //for tolerance
    digitalWrite(relay, HIGH); //turns off H-Bridge
}


if (closeState == HIGH){
  //Serial.println("CLOSE");
    digitalWrite(relay, LOW);
```

```
    delay(250);

    for (int i=1; i<=16; i++){  //Number of steps to close the curtain. Make sure the
steps for OPEN/CLOSE are exactly the same.
  //Serial.println(i);
      myStepper.step(200);
    }

    delay(500);
    digitalWrite(relay, HIGH);
      }
}
```