#include <Servo.h>

 Servo myservo;

String incomingByte ;

int potpin = 0;

int val;

int pos = 0;

void setup() {

 pinMode(3,OUTPUT);

 myservo.attach(9);

 myservo.write(0);

 Serial.begin(9600);

 for(pos = 0; pos < 255; pos += 1) {

 myservo.write(pos);

 delay(15);

 }

 for(pos = 255; pos>=1; pos-=1) {

 myservo.write(pos);

 delay(15);

 }

}

void loop() {

 Serial.println("Indiquer un angle entre 0 et 180 degres : ");

 incomingByte = Serial.readString() ;

 while (Serial.available()==0) {

 if(digitalRead(4)==0)

 digitalWrite(3,1);

 else

 digitalWrite(3,0);

 }

 Serial.print("I received: ");

 val = Serial.parseInt();

 Serial.println(val);

 myservo.write(val);

 delay(200);

 Serial.flush();

}