```
#include <SoftwareSerial.h>//
SoftwareSerial mySerial(0, 1); // 1-RX, 0-TX -

#include <Servo.h>
//--servo_motores---------------------
Servo myservo;
int pos = 0;
void setup(){
mySerial.begin(9600);
Serial.begin(9600);
//--servo_motores, myservo.attach(10), myservo.attach(11)......
myservo.attach(9);
for(pos = 0; pos <= 180; pos += 1)
myservo.write(0);
delay(1000);
myservo.write(180);
delay(1000);
myservo.write(90);
delay(1000);
}

void loop() {
//--Chamar serial
char caracter = mySerial.read();
//--Posiçao servo
for(pos = 0; pos <= 180; pos += 1)
if (Serial.available()){
  int state = Serial.parseInt();
    if (state < 1)
{
Serial.print("Serial");
Serial.println(state);
}
if (state >= 1 && state < 179){
  Serial.print(">");
  Serial.println(state);
  Serial.print("girando para ");
  Serial.print(state);
  Serial.println(" graus");
  myservo.write(state);
}

}
//--serial_list
 if(caracter == 'a')
{
 myservo.write(1);
 Serial.println("Estado 1");
}
if(caracter == 'b')
{
 myservo.write(94);
 Serial.println("Estado 2");
}
if(caracter == 'c')
{
 Serial.println("Estado 3");
 myservo.write(178);
}
if(caracter == 'd')
{
 Serial.println("Estado 4");
 myservo.write(45);
}
//TESTE DE LOOP
myservo.write(1);
delay(2000);
myservo.write(94);
delay(2000);
myservo.write(178);
delay(2000);
myservo.write(45);
delay(2000);
}
```