**Changing program code**

* nano /home/pi/Devoxx4Kids/distance/src/…
* Save with strg+o
* Quit with strg+x
* Run program:
  + /home/pi/Devoxx4Kids/Distanz/build.sh
* **Structure of aTinkerForge program**

public class main (String args) { … } 🡨 This gets executed by your computer when running the program

BrickletReader brickletReader = new BrickletReader();  
brickletReader.readBricklets(HOST, PORT); 🡨 In order to connect to the devices, we need to find them beforehand

Bricklet segmentBricklet = brickletReader.getBrickletByDeviceId(BrickletDistanceIR.DEVICE\_IDENTIFIER); 🡨 Here we identify a bricklet

IPConnection ipcon = new IPConnection(); 🡨 In order to talk to the bricklets we create a connection

BrickletDistanceIR dir = new BrickletDistanceIR(segmentBricklet.getUid(), ipcon); 🡨 Here we create a representative  
 of our bricklet in the code

ipcon.connect(HOST, PORT); 🡨 Finally we connect to our devices now

dir.setDistanceCallbackPeriod(1000); 🡨 Here we request to be notified once a second

dir.addDistanceListener(new BrickletDistanceIR.DistanceListener() {

@Override  
 public void distance(int distance) {  
 System.out.println("new value: " + (distance / 10) + " cm");  
 }  
 }); 🡨 This is a lot… though only the part under “@Override” is   
 important. Here we describe, what shall be done when   
 we are notified of a new value.

System.out.println("Press key to exit"); 🡨 Here we print the text between the “ “

System.in.read(); 🡨 Here you’re program waits until you press a key

ipcon.disconnect(); 🡨 This cancels the connection to the devices

**Help for later**

* E. g. Distance IR Bricklet

http://www.tinkerforge.com/de/doc/Software/Bricklets/DistanceIR\_Bricklet\_Java.html

* Or Piezo Speaker Bricklet

http://www.tinkerforge.com/de/doc/Software/Bricklets/PiezoSpeaker\_Bricklet\_Java.html

* An overview of all devices

http://www.tinkerforge.com/de/doc/index.html#/software-java-open

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