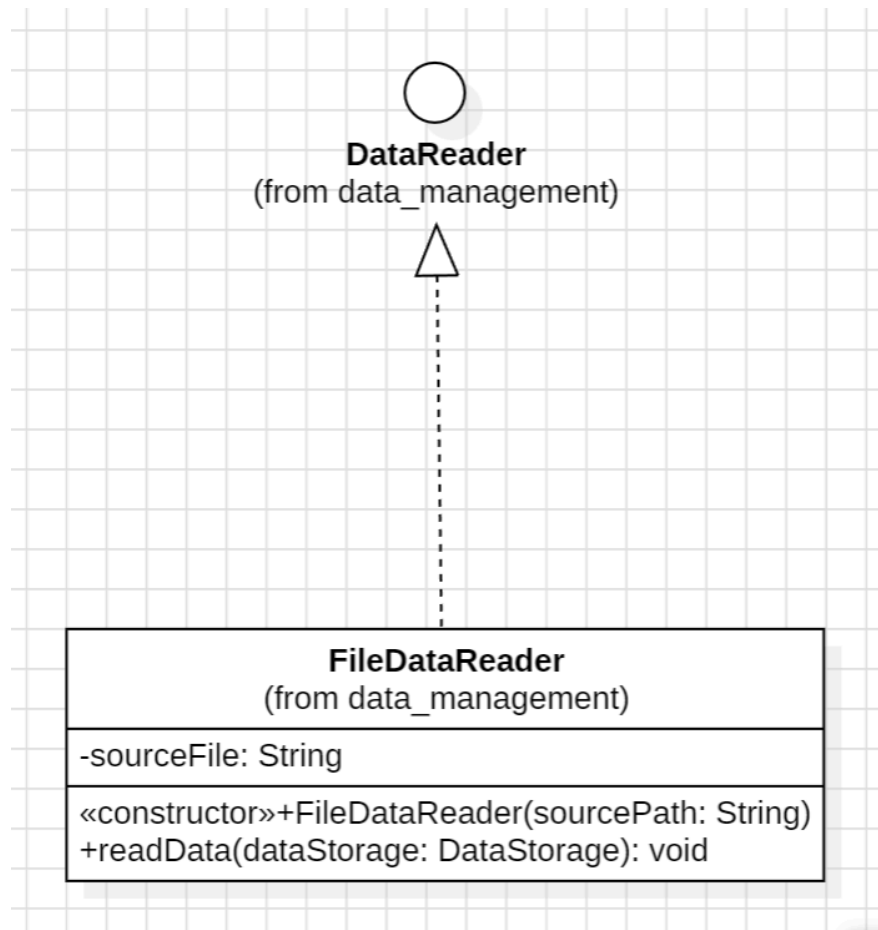# Week 4 tasks
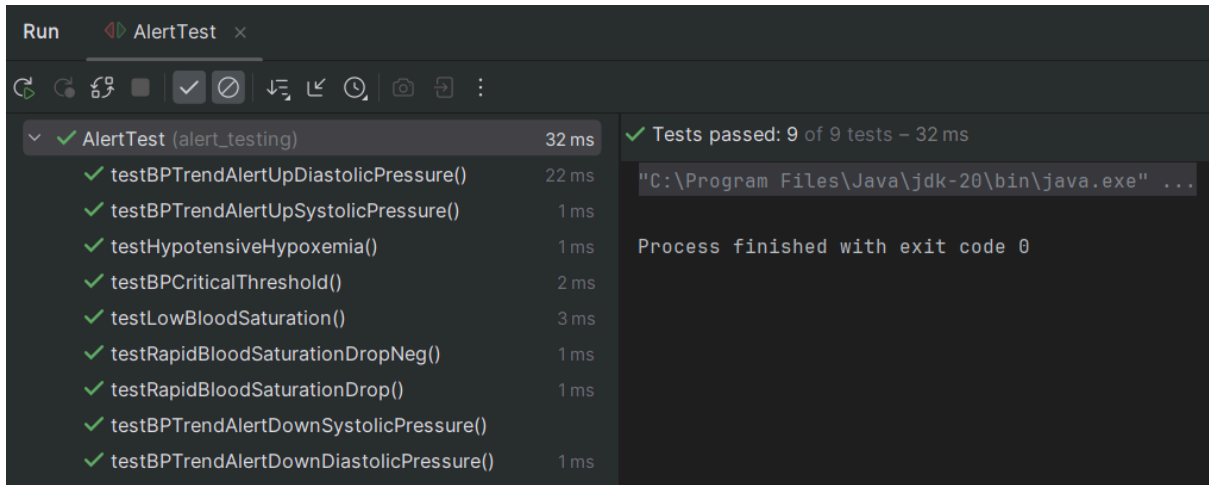
Alert types implemented:
1. [X] Blood Pressure Data Alerts
2. [X] Blood Saturation Data Alerts
3. [X] Combined Alert: Hypotensive Hypoxemia Alert
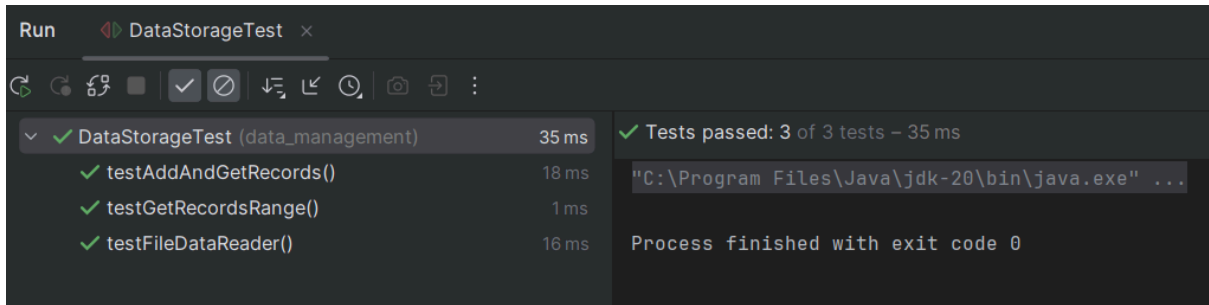4. [ ] ECG Data Alerts
5. [X] Manually triggered Alert

FileDataReader is a realisation of the DataReader interface. A path to the file in question is passed through the constructor. Calling readData appends the information in the file to the DataStorage object.

Alert tests for blood pressure were formulated and pass:

DataStorage and reading from file tests:

Jacoco coverage analysis is presented below. As shown, the tests I made so far mostly focus on various alert criteria (BPCriticalThresholdStrategy and the like)

cardio_generator

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.cardio_generator.generators		0%		0%	24	24	104	104	16	16	5	5
com.cardio_generator		0%		0%	28	28	91	91	14	14	1	1
com.cardio_generator.outputs		0%		0%	18	18	60	60	16	16	5	5
com.data_management		78%		70%	6	28	16	70	2	18	0	4
com.alerts.alert_strategies		88%		61%	20	45	9	92	0	15	0	5
com.alerts		0%		0%	6	6	15	15	4	4	1	1
com.alerts.alert_types		59%		n/a	10	17	11	25	10	17	4	8
com.alerts.alert_factories		100%		n/a	0	6	0	6	0	6	0	3
Total	1,359 of 2,118	35%	79 of 130	39%	112	172	306	463	62	106	16	32