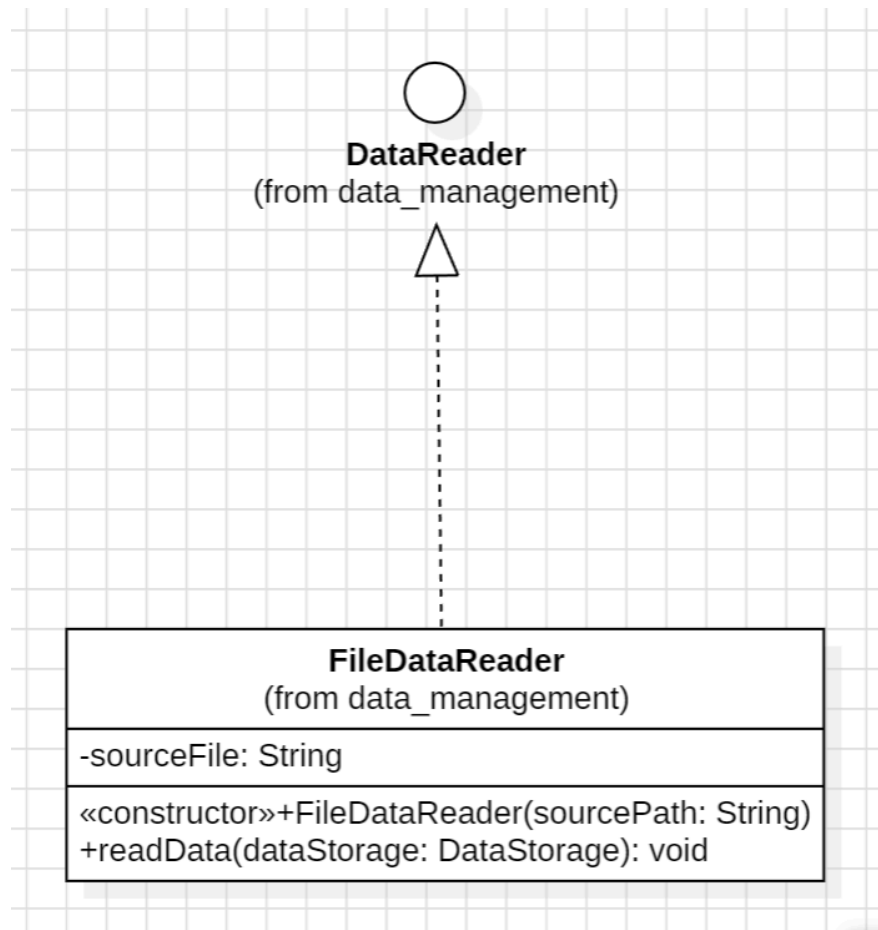


Week 4 tasks

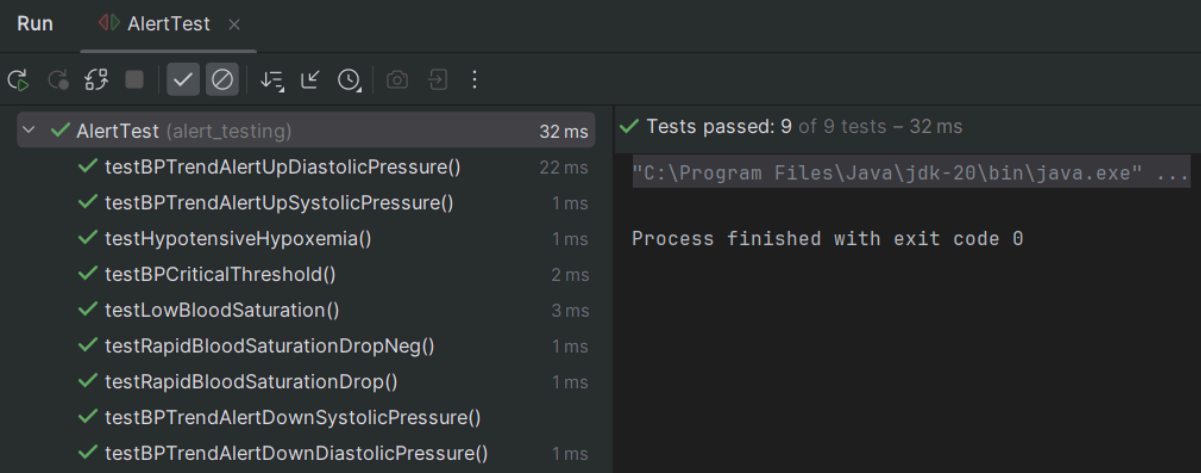
Alert types implemented:

1. ☒ Blood Pressure Data Alerts
2. ☒ Blood Saturation Data Alerts
3. ☒ Combined Alert: Hypotensive Hypoxemia Alert
4. ☐ ECG Data Alerts
5. ☒ 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:



The screenshot shows the 'Run' window of an IDE, specifically for a test class named 'AlertTest'. The window is divided into two main sections. The left section, titled 'AlertTest (alert_testing)', lists nine individual test methods, each preceded by a green checkmark and followed by its execution time. The right section, titled 'Tests passed: 9 of 9 tests - 32 ms', displays the command used to run the tests and the final exit code.

Test Method	Execution Time
testBPTrendAlertUpDiastolicPressure()	22 ms
testBPTrendAlertUpSystolicPressure()	1 ms
testHypotensiveHypoxemia()	1 ms
testBPCriticalThreshold()	2 ms
testLowBloodSaturation()	3 ms
testRapidBloodSaturationDropNeg()	1 ms
testRapidBloodSaturationDrop()	1 ms
testBPTrendAlertDownSystolicPressure()	1 ms
testBPTrendAlertDownDiastolicPressure()	1 ms

Tests passed: 9 of 9 tests - 32 ms

```
"C:\Program Files\Java\jdk-20\bin\java.exe" ...
```

Process finished with exit code 0