Codes and Tests

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Outline

- Code Structure
- Logging
- Test Results

Code Structure

- The code works under exam package.
- The code is prepared with two classes, one class is called as "Sabun" and other one is called as "calculate".
- In Sabun class, one constructor exists, and one method PrepareCargoPacket(int, int,int) exists.
- Calculate class includes the main method, and the method call to the static method in Sabun class.

Logging

- Due to information existing on internet *,
 Springboot has "logging" functionality, with
 some libraries associated with it. However, as I
 did not create any application with Spring
 framework, I am not able to use this
 functionality.
- Instead, I used java.util.logging.* library and API for the logging.

Logging

- For logging, my ideas are as follows:
- A file may be created in the program, writing each input and output into a log-file, therefore, there may be a file to be written and read frequently for logging.
- A database may be created, and results may be stored in this database, however, database should be secure and managed well.

Test Results

Test Results.

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                                       <terminated> calculate [Java Application] /usr/lib/jvm/java-11-openjdk-amd64/bin/java (/
7 kiloluk sabun sayisini giriniz:
2 kiloluk sabun sayisini giriniz:
Kac kg kargo istediginizi yaziniz:
15kg hedef icin, 2kg'lik sabun kargolamak mumkun olmayacaktir.
Apr 29, 2021 5:10:29 PM exam.calculate main
INFO: Log is created for exception detection
```

Test Results

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Test Results

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References

- https://docs.spring.io/spring-boot/docs/
 2.1.18.RELEASE/reference/html/boot-features-logging.html
- https://docs.oracle.com/javase/7/docs/api/java/ util/logging/package-summary.html