Nama: Gagas Surya Laksana

NIM: 1301223164 Kelas: IF-46-10

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/Library/Java/JavaVirtualMachines/jdk-23.jdk/Cont
Login successful for user 1234
Login user 1113 gagal, telah gagal login 1 kali
Login user 1113 gagal, telah gagal login 2 kali
Process finished with exit code 0
```

```
Main.java ×
                UserData.java

    LoginFailedException.java

       package com.tubesbookwise;
       public class Main {
           public static void main(String[] args) {
               UserData usr1 = new UserData( userId: 1234,  password: 8766);
               UserData usr2 = new UserData( userld: 1113, password: 8888);
               try {
                   usr1.login();
               } catch (LoginFailedException e) {
                   System.out.println(e.getMessage());
               }
               try {
                   usr2.login();
               } catch (LoginFailedException e) {
                   System.out .println(e.getMessage());
               }
               try {
                   usr2.login();
               } catch (LoginFailedException e) {
                   System.out.println(e.getMessage());
               }
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```

```
Main.java
               UserData.java
                                   S LoginFailedException.java ×
       package com.tubesbookwise;
       import java.util.HashMap;
       public class LoginFailedException extends Exception { no usages
           private static HashMap<Integer, Integer> failedCount = new HashMap<>(); 5 usages
           private int userId; 3 usages
           public LoginFailedException(String msg, int userId) { no usages
               super(msg);
               this.userId = userId;
               if (failedCount.containsKey(userId)) {
                   failedCount.put(userId, failedCount.get(userId) + 1);
               } else {
                   failedCount.put(userId, 1);
           public int getUserId(){  no usages
               return this.userId;
           public static int getFailedCounter(int userId) { 1usage
               return failedCount.getOrDefault(userId, defaultValue: 0);
           @Override
           public String getMessage() {
               int count = getFailedCounter(userId);
               return super.getMessage() + ", telah gagal login " + count + " kali";
```