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TP PBO MOD 10

CLASS LOGINFAILEDEXCEPTION

```
    */
    package valdez.tpmod10;
    import java.util.HashMap;
    /**
     *
     * @author valde
     */
    public class LoginFailedException extends Exception{
        private static HashMap<Integer,Integer> failedcount = new HashMap<>();
        private int userid;
        /**
         * Constructs an instance of <code>LoginFailedException</code> with the
         * specified detail message.
         *
         * @param msg the detail message.
         * @param user
         */
        public LoginFailedException(String msg, int user) {
            super(msg);
            this.userid = user;
            failedcount.put(user, failedcount.getOrDefault(user, 1) + 1);
        }

        public int getUserid(){
            return userid;
        }

        public static int getFailedCounter(int user){
            return failedcount.getOrDefault(user, 1);
        }
    }
```

CLASS USERDATA

```
    */
    public class UserData {
        private int userid;
        private int password;
        private boolean isLoggedIn;

        public UserData(int userid, int password){
            this.userid = userid;
            this.password = password;
        }

        public void login() throws LoginFailedException{
            assert Integer.toString(userid).length() == 4 && Integer.toString(password).length() == 4;
            if (password+userid == 10000){
                isLoggedIn = true;
                System.out.println("Login succesful for user "+userid);
            } else {
                isLoggedIn = false;
                throw new LoginFailedException("Login user " + userid + " gagal, telah gagal login " + (LoginFailedException.getFailedCounter(userid)) + " kali.");
            }
        }
    }
```

MAIN

```

L  */
  public class TPMOD10 {

      public static void main(String[] args) {
          UserData user1 = new UserData(1234,8766);
          UserData user2 = new UserData(1111,8766);

          try{
              user1.login();
          } catch (LoginFailedException e){
              System.out.println(e.getMessage());
          }
          try{
              user2.login();
          } catch (LoginFailedException e){
              System.out.println(e.getMessage());
          }
          try{
              user2.login();
          } catch (LoginFailedException e){
              System.out.println(e.getMessage());
          }
      }
  }
}
```

OUTPUT

```
] --- compiler:3.11.0:compile (default-compile) @ TPMOD10 ---
Changes detected - recompiling the module! :source
· Compiling 3 source files with javac [debug target 22] to target\classes

] --- exec:3.1.0:exec (default-cli) @ TPMOD10 ---
Login succesful for user 1234
Login user 1111 gagal, telah gagal login 1 kali.
· Login user 1111 gagal, telah gagal login 2 kali.
-----
BUILD SUCCESS
-----
Total time:  1.872 s
Finished at: 2024-11-17T20:22:31+07:00
```