**Assignment 1 - Boundary Value Analysis for a Login System with JUnit**

**Objective:**

To validate multiple inputs using **Boundary Value Analysis** including username length, password length, and maximum login attempts. This models a more complex real-world scenario.

**Problem Statement:**

Develop a login validation system with the following constraints:

* Username must be **3 to 15 characters** long.
* Password must be **8 to 20 characters** long.
* Login attempts must not exceed **5**.

**Implementation**

**1. Login Validator Class**

public class LoginValidator {

public static boolean isUsernameValid(String username) {

int len = username.length();

return len >= 3 && len <= 15;

}

public static boolean isPasswordValid(String password) {

int len = password.length();

return len >= 8 && len <= 20;

}

public static boolean isLoginAttemptValid(int attempts) {

return attempts >= 0 && attempts <= 5;

}

}

**Submission Guideline:**

1. Make a solution file (Java File) and name the file name as YOUR\_NAME\_BVA.java
2. Upload on following Google Drive Link

<https://drive.google.com/drive/folders/1_Dcw78qd9CsV25rSe5b5rKLRMhqT4v3G?usp=sharing>