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# Class HW3

java.lang.Object  
HW3

```
public class HW3
extends java.lang.Object
```

HW3 - Automated Test Application This application contains five standalone tests for password evaluation, utilities, policy enforcement, and history tracking. Each test runs as a simple mainline without JUnit. Author: Anshika Rai Date: 26th March 2025

## Constructor Summary

Constructors	
Constructor	Description
HW3()	

## Method Summary

All Methods		Static Methods	Concrete Methods
Modifier and Type	Method	Description	
static void	main(java.lang.String[] args)	Entry point to run all five automated tests.	
static void	testMissingSpecialCharacter()	Test: PasswordUtils.containsSpecialCharacter() should return false for a password that lacks special characters.	
static void	testMultiplePolicyViolations()	Test: PasswordPolicyEnforcer.enforce() should return multiple violations for a very weak password that breaks several rules.	
static void	testPasswordReuseDetection()	Test: PasswordHistoryManager should detect when a password is reused.	

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void

Test: PasswordUtils.isValidLength() should return false for short passwords.

**Methods inherited from class java.lang.Object**

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

***Constructor Detail*****HW3**

public HW3()

***Method Detail*****main**

public static void main(java.lang.String[] args)

Entry point to run all five automated tests.

**testPasswordStrengthEvaluator**

public static void testPasswordStrengthEvaluator()

Test: PasswordStrengthEvaluator.evaluate() should return "Strong" for a complex password with all required characteristics.

**testMissingSpecialCharacter**

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SEARCH:

[SUMMARY: NESTED | FIELD | CONSTR | METHOD](#) [DETAIL: FIELD | CONSTR | METHOD](#)**testMultiplePolicyViolations**

```
public static void testMultiplePolicyViolations()
```

Test: PasswordPolicyEnforcer.enforce() should return multiple violations for a very weak password that breaks several rules.

**testPasswordReuseDetection**

```
public static void testPasswordReuseDetection()
```

Test: PasswordHistoryManager should detect when a password is reused.

**testShortPasswordLength**

```
public static void testShortPasswordLength()
```

Test: PasswordUtils.isValidLength() should return false for short passwords.

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