Implement a Simple Password Validator

In this task, you need to implement a password validation system using Java. The goal is to check if a given password meets the following conditions:

- Minimum Length Requirement: The password must be at least 8 characters long.
 Uppercase Letter Requirement: The password must contain at least one uppercase
 Number Requirement: The password must contain at least one numeric digit (0-9).

If the password meets all three conditions, print "Valid Password". Otherwise, print "Invalid Password".

Input Format:

• A single string representing the password (can contain alphabets, numbers, and special characters).

// Step 1: Constructor to initialize the password variable public WO7_5(String password) { this.password = password; // Assign the passed password to the instance variable

Note: Try solving it without hints first-only check if you're truly stuck. Avoid AI or internet searches; quick answers won't build real skills. Struggle a bit, learn for life! Be honest with yourself!

Output Format:

- Print "Valid Password" if the password satisfies all the conditions.
 Otherwise, print "Invalid Password".

Example Input: Password123

Example Output: Valid Password

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	password123	Invalid Password	Invalid Password	Passed

The due date for submitting this assignment has passed. out of 1 tests passed You scored 100.0/100

public boolean isValidPassword(String password) {
 if (password.length() < 8) {
 return false:</pre>

boolean hasUppercase = false; boolean hasDigit = false;

Assignment submitted on 2025-03-06, 13:31 IST Your last recorded submission was

public class W07_5 {
 private String password;

import java.util.Scanner;

\23456789012345678901234567890123456789012345678901234567890 for (int i = 0; i < password.length(); i++) {
 char c = password.charAt(i);
 if (characese is because is the compared in the compar return hasUppercase && hasDigit; public static void main(String[] args) {
 Scanner scanner = new Scanner(System.in);
 // Read password input from user
 // Read password input fro Scanner scanner(System.in);
// Read password input from user
String inputPassword = scanner.nextLine();
scanner.close();
W07_5 validator = new W07_5(inputPassword); // Check password validity and print result
if (validator.isValidPassword(inputPassword)) {
 system.out.print("Valid Password");
 System.out.print("Invalid Password");
} scanner.close(); Sample solutions (Provided by instructor)

1 import java.util.Scanner; public class W07_5 {
 private String password; // Step 1: Constructor to initialize the password variable
public w07_5(String password) {
 this.password = password; // Assign the passed password to the instance variable and the structure of the structure of the structure of the struck of the public boolean isValidPassword(String password) {
 // Step 1: Check if the password length is at least 8 characters
 if (this.password.length() < 8) {
 return false; // If password is too short, it's invalid
 return false; // If password is too short, it's invalid</pre> boolean hasUpperCase = false; // Flag to track if there is an uppercase letter boolean hasDigit = false; // Flag to track if there is a number // Step 2: Loop through each character in the password
for (char ch : this.password.tocharArray()) {
 if (Character.isUpperCase(ch)) {
 hasUpperCase = true; // Found an uppercase letter if (Character.isDigit(ch)) {
 hasDigit = true; // Found a number // If both conditions are met, no need to check further
if (hasUpperCase && hasDigit) {
 return true: // Step 3: If either condition is not met, return false
return false; public static void main(String[] args) {
 Scanner scanner = new Scanner(System.in);
 // Read password input from user
 String inputPassword = scanner.nextLine();
 scanner.close();
 w07_5 validator = new w07_5(inputPassword); // Check password validity and print result
if (validator.isValidPassword(inputPassword)) {
 System.out.print("Valid Password");
} else { } else {
 System.out.print("Invalid Password"); scanner.close();