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**Course Code : CSE1006 Course Title : Problem solving using java**

1. Login System with Case-Insensitive Username Check

**Problem Statement:**

You’re building a simple login system. The system should:

* Check if the entered username and password are valid.
* Ignore the case of the username (i.e., Sikandar is the user name).
* Ensure the password is case-sensitive. (i.e., Secure123)
* Also, the password should be at least 8 characters long.

**Solution:**

import java.util.Scanner;

public class LoginSystem {

public static void main(String[] args) {

// Simulated stored username and password

String storedUsername = "Sikandar";

String storedPassword = "Secure123";

Scanner scanner = new Scanner(System.in);

System.out.print("Enter username: ");

String inputUsername = scanner.nextLine();

System.out.print("Enter password: ");

String inputPassword = scanner.nextLine();

// Check password length

if (inputPassword.length() < 8) {

System.out.println("Password must be at least 8 characters.");

System.exit(0);

}

// Convert username to lower case for case-insensitive comparison

if (storedUsername.toLowerCase().equals(inputUsername.toLowerCase())) {

// Case-sensitive password comparison

if (storedPassword.equals(inputPassword)){

System.out.println("Login successful!");

System.out.println("Welcome, " + storedUsername.toUpperCase() + "!");

}

else {

System.out.println("Incorrect password.");

}

}

else {

System.out.println("Username not found.");

}

}

}

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1. Write a program that reads two peoples of child parent first name and suggests a name for their child

Hint: Father name: Abhishek Bachchan

Mother name : Aishwarya Rai

Gender: female

Chile name : AISHWAABHISHEK

import java.util.\*;

public class BabyName

{

public static void main(String[] args)

{

Scanner s = new Scanner(System.in);

System.out.print("Parent 1 father first name? ");

String fname = s.nextLine(); // amith kumar

System.out.print("Parent 2 mother first name? ");

String mname = s.nextLine(); // suhmitha sen

System.out.print("Child Gender? ");

String gender = s.next();

String f\_halfName = getHalfName(fname);

String m\_halfName = getHalfName(mname);

String c\_name = "";

if(gender.toLowerCase().startsWith("m")) // male

{

c\_name = f\_halfName + m\_halfName;

}

else

{

c\_name = m\_halfName + f\_halfName;

}

System.out.println("Suggested name: " + c\_name.toUpperCase());

}

static String getHalfName(String name)

{

int halfIndex = name.length() / 2;

String half = name.substring(0, halfIndex);

return half;

}

}

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