



CSE215L: Programming Language II Lab

In-class Assignment: Week 2

Full Marks: 100

1. Imagine that you are working for a registration system. You have users who will enter the following information into your system as their details: their username and password. You need to verify that the username and password pass certain rules.

Create two methods with the following signatures. **You cannot change the signature of the provided methods.**

```
public static boolean isValidUsername(String username)
public static boolean isValidPassword(String password)
```

The following table outlines the validity criteria for usernames and passwords:

Username	Password
<ul style="list-style-type: none">• All characters are lowercase• At least 4 characters long• Contains no spaces• Numbers are valid	<ul style="list-style-type: none">• At least 6 characters long• Has at least one uppercase alphabet• Has at least one lowercase alphabet• Has at least one number• Spaces are valid

Implement the given validation criteria in the respective methods.

In your main method, ask the user for username and password. Call the above two methods, and if either or both username and password are invalid, display an appropriate error message.

Sample:

```
Please enter username: david
Please enter password: David504
Valid.
```

```
Please enter username: John
Please enter password: John 504
Invalid username.
```

```
Please enter username: john504
Please enter password: john504
Invalid password.
```

Please enter username: Doe
Please enter password: DoeDoe
Invalid username.
Invalid password.