Rajalakshmi Engineering College

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Batch: 2028

Degree: B.E - CSE



2024_28_III_OOPS Using Java Lab

2028_REC_OOPS using Java_Week 8_Q3

Attempt : 1 Total Mark : 10 Marks Obtained : 10

Section 1: Coding

1. Problem Statement

In a user registration system, there is a requirement to implement a username validation module. Users attempting to register must adhere to specific criteria for their usernames to be considered valid.

Your task is to develop a program that takes user input for a desired username and validates it according to the following rules:

The username must not contain any spaces. The username must be at least 5 characters long.

Implement a custom exception, InvalidUsernameException, to handle cases where the entered username does not meet the specified criteria.

Input Format

The input consists of a string S, representing the desired username.

Output Format

If the username is valid, print "Username is valid: [S]".

If the username is invalid:

- 1. If the username is short, print "Invalid Username: Username must be at least 5 characters long"
- 2. If the username contains spaces, print "Invalid Username: Username cannot contain spaces"

Refer to the sample output for formatting specifications.

Sample Test Case

Input: John

Output: Invalid Username: Username must be at least 5 characters long

Answer

```
public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    String username = scanner.nextLine();
    try {
       validateUsername(username);
       System.out.println("Username is valid: " + username);
    } catch (InvalidUsernameException e) {
       System.out.println(e.getMessage());
    }
    scanner.close();
}

Status: Correct

Marks: 10/10
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