Rajalakshmi Engineering College

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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

```java
class InvalidUsernameException extends Exception{
   public InvalidUsernameException(String message){
      super(message);
   }
}class UsernameValidator{
 public static void main(String[] args){
     java.util.Scanner scanner = new java.util.Scanner(System.in);
     String username = scanner.nextLine();
     try{
       if (username.contains(" ")){
          throw new InvalidUsernameException("Username cannot contain
spaces");
       }
       if (username.length() < 5){
          throw new InvalidUsernameException("Username must be at least 5
characters long");
      }System.out.println("Username is valid: " + username);
    }catch (InvalidUsernameException e){
       System.out.println("Invalid Username: " + e.getMessage());}
   }
```

```
}
```

Status : Correct

Marks : 10/10