

# 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***

```
import java .util.*;
class InvalidUsernameException extends Exception{
    public InvalidUsernameException(String message){
        super(message);
    }
}
class name{
    public static void main(String args[]){
        Scanner sc=new Scanner(System.in);
        String s=sc.nextLine();
        try{
            validateUsername( s);
            System.out.println("Username is valid: "+s);
        }
        catch (InvalidUsernameException e){
            System.out.println(e.getMessage());
        }
    }
    public static void validateUsername(String s) throws
    InvalidUsernameException{
```

```
        if(s.length()<5){
            throw new InvalidUsernameException("Invalid Username: Username must
be at least 5 characters long");
        }
        if(s.contains(" ")){
            throw new InvalidUsernameException("Invalid Username: Username
cannot contain spaces");
        }
    }
}
```

**Status :** Correct

**Marks :** 10/10