

# Rajalakshmi Engineering College

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Batch: 2028

Degree: B.E - CSE

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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{  
    InvalidUsernameException(String msg){  
        super(msg);  
    }  
}  
public class Main{  
    public static void main(String[] args){  
        Scanner sc= new Scanner(System.in);  
        String username=sc.nextLine();  
        try{  
            validateUsername(username);  
            System.out.println("Username is valid: " + username);  
        }catch(InvalidUsernameException e){  
            System.out.println(e.getMessage());  
        }  
    }  
    static void validateUsername( String username) throws  
    InvalidUsernameException{  
        if(username.contains(" ")){
```

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

**Status : Correct**

**Marks : 10/10**