

# 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**

```
// You are using Java
import java.util.*;
```

```
class InvalidUsernameException extends Exception{
    public InvalidUsernameException(String msg){
        super(msg);
    }
}
```

```
class UsernameChek{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        try{
            String email=sc.nextLine();
            if(email.contains(" ")){
                throw new InvalidUsernameException("Username cannot contain
spaces");
            }else if(email.length()<5){
                throw new InvalidUsernameException("Username must be at least 5
characters long");
            }
        }
    }
}
```

```
}else{
    System.out.println("Username is valid: "+email);
}
}catch(InvalidUsernameException e){
    System.out.println("Invalid Username: "+e.getMessage());
}
}
```

**Status :** Correct

**Marks : 10/10**