

Rajalakshmi Engineering College

Name: Divya s
Email: 240701128@rajalakshmi.edu.in
Roll no: 240701128
Phone: 9361309467
Branch: REC
Department: CSE - Section 7
Batch: 2028
Degree: B.E - CSE

Scan to verify results



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 m){  
        super(m);  
    }
```

```
}
```

```
class main{
```

```
    public static void main(String[] args){
```

```
        Scanner sc=new Scanner(System.in);
```

```
        String m=sc.nextLine();
```

```
        try{
```

```
            for(int i=0;i<m.length();i++){
```

```
                if(m.charAt(i)==' '){
```

```
                    throw new InvalidUsernameException("Invalid Username: Username  
cannot contain spaces");
```

```
                }
```

```
    }  
    if(m.length()<5){  
        throw new InvalidUsernameException("Invalid Username:Username  
must be at least 5 characters long");
```

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

```
    }  
}
```

Status : Correct

Marks : 10/10