

Rajalakshmi Engineering College

Name: Aldrine Linjoe.s
Email: 240701033@rajalakshmi.edu.in
Roll no: 240701033
Phone: 7092049029
Branch: REC
Department: CSE - Section 10
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 n=sc.nextLine();
```

```
        int k=0;
```

```
        try{
```

```
            int c=0;
```

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

```
                if(!Character.isLetter(n.charAt(i))){
```

```
                    c++;
```

```
                }
```

```
            }
```

```
            if(n.length()<5){
```

```
        throw new InvalidUsernameException("Invalid Username: Username  
must be at least 5 characters long");  
    }else if(c!=0){  
        throw new InvalidUsernameException("Invalid Username: Username  
cannot contain spaces");  
    }  
    }catch(InvalidUsernameException e){  
        System.out.println(e.getMessage());  
        k++;  
    }  
    if(k==0){  
        System.out.println("Username is valid: "+n);  
    }  
    }  
}
```

Status : Correct

Marks : 10/10