

**OBJECT ORIENTED PROGRAMMING LAB****Experiment No.: 18****Aim**

Write a user defined exception class to authenticate the user name and password.

**Procedure**

```
import auth.*;

import java.util.Scanner;

public class Authentication {

    public static void main(String[] args) {

        String username = "Reshma";

        String password = "Reshma@123";

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter the Username");

        String u1 = sc.nextLine();

        System.out.println("Enter the Password");

        String u2 = sc.nextLine();

        try {

            if ((u1.equals(username)) && (u2.equals(password))) {

                System.out.println("Access Granted");

            }

            else {

                throw new credentialException("Invalid Credentials");

            }

        }

    }


}
```

**Name: Reshma K S****Roll No:27****Batch:mca b****Date:31-0-2022**

```
    }  
  
    catch (credentialexception e){  
  
        System.out.println(e.getMessage());  
  
    }  
  
}  
  
}
```

```
import auth.*;  
  
public class credentialexception extends Exception{  
  
    public credentialexception(String s){  
  
        super(s);  
  
    }  
  
}
```

### **Output Screenshot**



```
D:\R>javac Authentication.java  
  
D:\R>java Authentication  
Enter the Username  
Reshma  
Enter the Password  
Reshma@123  
Access Granted  
  
D:\R>
```

```
Enter the length and breadth of rectangle:
12
12

Enter the radius of the circle :
5

Enter the height and breadth of the triangle:
12
5
```

#### INFORMATION OF ALL SHAPES

##### DETAILS OF CIRCLE

RADIUS : 5.0

AREA : 30.0

##### DETAILS OF RECTANGLE

LENGTH : 12.0

BREADTH : 12.0

AREA : 30.0

##### DETAILS OF TRIANGLE

BREADTH : 5.0

HEIGHT : 12.0

AREA : 30.0