

OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 18

Aim

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

Procedure

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```
import Authentication.*;

import java.util.Scanner;

public class authentication {

    public static void main(String[] args) {
        String username = "vismaya";
        String password = "vismi";
        Scanner sc = new Scanner(System.in);
        System.out.println("Please Enter Your Username");
        String u1 = sc.nextLine();
        System.out.println("Please 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");
            }
        }

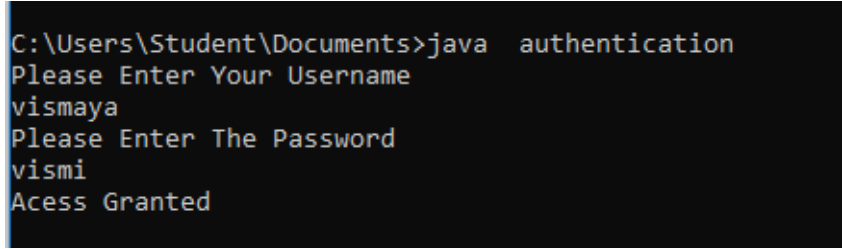
        catch (credentialException e){
            System.out.println(e.getMessage());
        }
    }
}
```

```
}
```

```
package Authentication;
```

```
public class credentialexception extends Exception{  
    public credentialexception(String s){  
        super(s);  
    }  
}
```

Output Screenshot

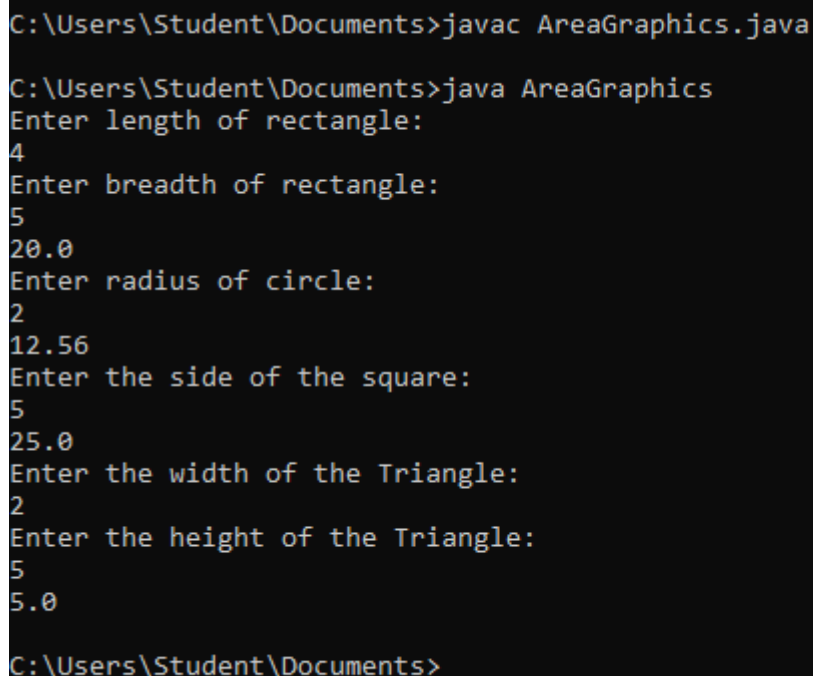


```
C:\Users\Student\Documents>java authentication  
Please Enter Your Username  
vismaya  
Please Enter The Password  
vismi  
Access Granted
```



```
Graphics Ob = new Graphics();  
System.out.println(Ob.recArea());  
    System.out.println(Ob.cirArea());  
    System.out.println(Ob.squArea());  
    System.out.println(Ob.triArea());  
}
```

Output Screenshot



```
C:\Users\Student\Documents>javac AreaGraphics.java  
  
C:\Users\Student\Documents>java AreaGraphics  
Enter length of rectangle:  
4  
Enter breadth of rectangle:  
5  
20.0  
Enter radius of circle:  
2  
12.56  
Enter the side of the square:  
5  
25.0  
Enter the width of the Triangle:  
2  
Enter the height of the Triangle:  
5  
5.0  
  
C:\Users\Student\Documents>
```