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Java 360
Project 1

```java
package userpass;

import java.util.*;
import java.io.*;
import java.util.logging.Level;
import java.util.logging.Logger;
public class LoginSystem {
    public static void main(String[] args) {
        try {
            int attempt = 1;
            Scanner scanner;
            scanner = new Scanner(new File ("C:\\Users\\admin\\Desktop\\login.txt"));

            StringBuilder builder = new StringBuilder();
            while (scanner.hasNextLine()) {
                builder.append(scanner.nextLine());
                builder.append(" ");
            }
            String info[] = builder.toString().split(":");
            String[] credentials = new String[info.length];
            for (int i = 0; i < info.length; i++)
                credentials[i] = info[i].trim();
            System.out.println(Arrays.toString(credentials));
            Scanner input = new Scanner (System.in);

            System.out.println("Enter username: ");
            String userInput = input.nextLine();
            System.out.println("Enter password: ");
            String passInput = input.nextLine();
```

```java
            if (Arrays.asList(credentials).contains(userInput)){
                while(attempt<4){
                int index = Arrays.asList(credentials).indexOf(userInput);
                if (credentials[index+1].equals(passInput)){
                    System.out.println("Access Granted");
                    break;
                }
                else{
                    System.out.println("Access Denied");
                    attempt++;
                    if(attempt==4){
                        System.out.println("Too many password Attempts. Your account has been
locked");
                    }
                    else{
                    System.out.println("Enter password: ");
                    passInput = input.nextLine();
                    }
                }
                }
            }
            else
                System.out.println("User Not Found");


        scanner.close();

    }
    catch (FileNotFoundException ex) {
        Logger.getLogger(LoginSystem.class.getName()).log(Level.SEVERE, null, ex);

    }
  }
}
```

The following are screenshots of the various outputs:

output when username and password are entered accurately on the first attempt

```
run:
[ahupe01, Alanna1, jthomas3, jayd1, claucella1, chris0, ]
Enter username:
claucella1
Enter password:
chris0
Access Granted
BUILD SUCCESSFUL (total time: 8 seconds)
```

output when the username is entered accurately but the password is not entered correctly

```
[ahupe01, Alanna1, jthomas3, jayd1, claucella1, chris0, ]
Enter username:
jthomas3
Enter password:
jayd
Access Denied
Enter password:
j
Access Denied
Enter password:
t
Access Denied
Too many password Attempts. You account has been locked
BUILD SUCCESSFUL (total time: 10 seconds)
```

output when the username is entered accurately but the password is not entered accurately until the third and final attempt

```
run:
[ahupe01, Alanna1, jthomas3, jayd1, claucella1, chris0, ]
Enter username:
ahupe01
Enter password:
alanna
Access Denied
Enter password:
alanna1
Access Denied
Enter password:
Alanna1
Access Granted
BUILD SUCCESSFUL (total time: 32 seconds)
```

output when the username is not entered correctly and the program quits

```
run:
[ahupe01, Alanna1, jthomas3, jayd1, claucella1, chris0, ]
Enter username:
helloWorld
Enter password:
h
User Not Found
BUILD SUCCESSFUL (total time: 11 seconds)
```

below is a screenshot of the program in NetBeans

```java
package userpass;

import java.util.*;
import java.io.*;
import java.util.logging.Level;
import java.util.logging.Logger;
public class UserPass {
    public static void main(String[] args) {
        try {
            int attempt = 1;
            Scanner scanner;
            scanner = new Scanner(new File ("C:\\Users\\admin\\Desktop\\login.txt"));

            StringBuilder builder = new StringBuilder ();
            while (scanner.hasNextLine ()) {
                builder.append(scanner.nextLine ());
                builder.append(" ");
            }
            String info[] = builder.toString ().split (":");
            String[] credentials = new String[info.length];
            for (int i = 0; i < info.length; i++)
                credentials[i] = info[i].trim ();
            System.out.println (Arrays.toString (credentials));
            Scanner input = new Scanner (System.in);

            System.out.println ("Enter username: ");
            String userInput = input.nextLine ();
            System.out.println ("Enter password: ");
            String passInput = input.nextLine ();


                if (Arrays.asList (credentials).contains (userInput)){
                    while (attempt<4){
                    int index = Arrays.asList (credentials).indexOf (userInput);
                    if (credentials[index+1].equals (passInput)){
                        System.out.println ("Access Granted");
                        break;
                    }
                    else{
                        System.out.println ("Access Denied");
                        attempt++;
                        if (attempt==4){

                            System.out.println ("Too many password Attempts. You account has been locked");
                        }
                        else{
                        System.out.println ("Enter password: ");
                        passInput = input.nextLine ();
                        }
                    }
                    }
                }
                else
                    System.out.println ("User Not Found");



            scanner.close ();

        }
        catch (FileNotFoundException ex) {
            Logger.getLogger (UserPass.class.getName ()).log (Level.SEVERE, null, ex);

        }
    }
}
```