```java
1 package mypackage;
2 import java.util.Scanner;
3
4 abstract class Softwares{
5 String username;
6 String password;
7
8 void userinput() {   //user input method
9  Scanner s=new Scanner(System.in);
10  System.out.println("Enter user name:");
11  username=s.nextLine();
12  System.out.println("Enter password:");
13  password=s.nextLine();
14
15 }
16
17 void user_login() {
18  System.out.println("WELCOME TO INSTAGRAM");
19  System.out.println("--------------------");
20  System.out.println("Please login here!!");
21
22
23 }
24 abstract void app_open();
25 }
26
27 class Instagram extends Softwares{
28 @Override
29 void app_open(){
30  while(true) {
31  if(username.equals("Lakshmi")&& (password.equals("1234@l"))) {
32  System.out.println("Successfully loged in..app is open");
33  break;
34 }else {
35  System.out.println("invalid username and password:please try again");
36  userinput();
37  }
38 }
39 }
40 void app_close() {
41  System.out.println("App is closed");
42
43 }
44 }
45 public class Apps {
46
47  public static void main(String[] args) {
48  Instagram i=new Instagram();
49  i.user_login();
50  i.userinput();
```

```
51    i.app_open();
52
53  }
54
55 }
56
```